

Author Index

Entries refer to part, chapter or section numbers

- Abele, R. K., 7.3
Åberg, T., 7.4.3
Abragam, A., 2.6.2
Abrahams, J. M., 7.1.6
Abrahams, K., 4.4.2
Abrahams, S. C., 1.4, 4.2.2,
 4.2.6, 5.3, 6.2, 8.1, 8.5, 9.2.2
Abramowitz, M., 6.1.1, 6.3, 7.5
Achiwa, N., 2.9
Ackermann, I., 4.3.7
Adams, L. H., 3.2
Adamsky, R. F., 9.2.1
Adlhart, W., 3.4
Agamalyan, M. M., 4.4.2
Agarwal, B. K., 4.2.6
Ahahama, Y., 4.2.5
Ahrlrichs, R., 6.1.1
Ahmed, A., 5.2
Ahn, C. C., 4.3.4, 7.2
Ahtee, M., 2.3, 8.6
Airey, R. W., 7.1.6
Akashi, Y., 5.3
Akhiezer, A. I., 4.2.6
Akiyoshi, T., 2.9
Alani, R., 3.5
Albers, R. C., 4.2.3
Albertsson, J., 5.3
Albinati, A., 8.6
Alcock, N. W., 5.3, 6.3
Aldred, P. J. E., 4.2.6
Alefeld, B., 2.6.2, 4.4.2
Aleksandrov, K. S., 3.1
Alexander, E., 9.2.1
Alexander, H., 4.3.8
Alexander, L., 5.2, 5.3
Alexander, L. E., 2.3, 3.4, 5.1,
 5.3, 6.2
Alexander, T. K., 4.4.2
Alexandropoulos, N. G., 7.4.3
Alkire, R. W., 3.4
Allemand, R., 2.4.2, 7.1.6, 7.3
Allen, F. H., 9.5, 9.6, 9.7
Allen, J. P., 3.1
Allen, S., 3.4
Allen, S. J. M., 4.2.4
Allewell, N. M., 3.4
Allin, G. W., 7.3
Allington-Smith, J. R., 7.1.6
Allinson, N. M., 2.7, 7.1.6
Allison, S. K., 2.3, 2.7, 4.2.1,
 5.3
Allsopp, D. W. E., 2.7
Alp, E. E., 5.3
Alstrup, I., 4.2.3, 4.2.6
Alstrup, O., 2.5.1
Altarelli, M., 4.3.4
Alter, U., 5.3
Altmann, S. L., 6.1.1
Altomare, A., 8.6
Alvarez, L. W., 4.2.3, 4.4.2
Amadori, R., 4.4.2
Amelinckx, S., 3.5, 4.3.8, 9.2.2
Amemiya, Y., 7.1.6, 7.1.8
Ames, L., 7.1.4
Ammon, H. L., 3.1
Amorós, J. L., 2.2, 5.3
Amorós, M. C., 2.2, 5.3
d'Amour, H., 5.3
Anderegg, J. W., 2.6.1
Anderson, C. A. F., 2.3
Anderson, D., 2.2, 3.4
Anderson, D. W., 6.3
Anderson, E., 8.1
Anderson, I., 4.4.2
Anderson, I. S., 4.4.2
Anderson, J. E., 7.1.6
Anderson, R., 2.4.1
Anderson, W. F., 3.1
Andersson, B., 4.3.7
Andersson, S., 9.1, 9.7
Ando, M., 2.2, 2.7, 2.8, 5.3,
 7.1.8
Ando, T., 4.3.3
Ando, Y., 4.3.7, 8.8
Andrade, M., 9.2.1
Andresen, A., 6.1.2
Andrew, N. L., 5.3
Andrews, S. J., 2.2, 2.3
Andrianova, M. E., 7.1.6
Andrus, J., 2.7
Angel, R. J., 9.2.2
Anger, H. O., 7.1.6
Anisimov, Yu. S., 7.1.6
Ankner, J. F., 2.9, 4.4.2
Ansara, I., 2.6.2
Anstis, G. R., 4.3.8
d'Anterroches, C., 4.3.8
Aoki, K., 3.4
Aoki, Y., 4.3.7
Appleman, D. E., 5.2
Apsimon, R. J., 7.1.6
Arai, T., 2.3
Arakali, S. V., 3.1
Arcese, A., 7.1.7
Archer, B. T., 4.3.3
Archer, J. M., 3.4
Argos, P., 3.4
Argoud, R., 3.4
Aristov, V. V., 4.2.6, 5.3
Armstrong, R. W., 2.7
Arndt, U. W., 2.2, 2.7, 3.4,
 4.2.1, 4.2.2, 5.3, 6.2, 7.1.6
Arnesen, S. P., 4.3.3
Arnold, E., 3.4
Arnold, H., 3.4
Arnold, P., 2.5.2
Arrott, A., 6.2
Arrott, A. S., 2.8
Arsenin, V. Ya., 2.6.1
Artioli, G., 9.2.2
Artymiuk, P., 2.2
Arvedson, M., 4.3.3
Åsbrink, S., 5.3
Ascher, E., 9.8
Ascheron, C., 5.3
Ateiner, J., 2.3
Atoji, M., 6.1.1
Attfield, J. P., 2.3
Auleytner, J., 5.3
Austerman, S. B., 2.7
Authier, A., 2.7
Autrata, R., 7.2
Averbach, B. L., 2.3
Avery, J., 6.1.1, 8.7
Avilov, A. S., 2.4.1, 4.3.5
Axe, J. D., 4.4.2, 4.4.3
Axelrod, H. J., 3.1
Axelsson, U., 4.2.2
Ayers, G. L., 2.3
Azaroff, L. V., 2.3, 4.2.3, 5.3,
 6.3, 9.2.1
Azumi, I., 5.3
Bałk-Misiuk, J., 5.3
Babkevich, A. Yu., 9.2.2
Bacchella, C. L., 2.6.2
Bach, H., 3.5
Bachmann, R., 2.3, 7.4.2
Backhaus, K.-O., 9.2.2
Bačkovský, J., 5.3
Bacon, G. E., 2.6.2, 3.6, 4.4.2,
 4.4.4, 6.1.3, 6.4
Bacon, J. R., 2.6.1
Badurek, G., 4.4.2
Baerlocher, Ch., 2.3, 8.6
Bagchi, S. N., 2.6.1
Baharie, E., 8.6
Bai, Z., 8.1
Baigarin, K. A., 4.2.1
Baik, D. H., 4.2.2
Bailey, D., 5.3
Bailey, I., 2.4.2
Bailey, R. L., 4.2.1
Bailey, S. W., 9.2.2
Baker, J. A., 5.3
Baker, J. F. C., 5.3
Baker, R. F., 4.3.4
Baker, R. J., 9.7
Baker, S. M., 2.9
Baker, T. W., 2.3, 5.3
Bakken, L. N., 4.3.7, 8.8
Balaic, D. X., 4.2.5
Baldock, P., 3.1
Ballon, J., 7.1.3, 7.1.6
Balzar, D., 8.6
Band, I. M., 4.2.4
Banerjee, D., 3.5
Bannett, Y. B., 7.4.3
Banner, G., 9.2.2
Baptista, G. B., 4.2.4
Barber, D. J., 3.5
Barclay, A. N., 3.4
Barla, K., 5.3
Barna, S. L., 2.7
Barnea, Z., 4.2.5
Barnes, I. L., 5.3
Barnes, P., 3.4
Barns, R. L., 5.3
Baronet, A., 9.2.2
Barraud, J., 2.3
Barreau, G. H., 4.2.2
Barrett, C. S., 2.3, 2.7, 4.3.5
Barrientos, J., 4.3.3
Barry, J. C., 9.2.2
Bartell, L. S., 4.3.3
Bartels, K., 3.4, 6.3
Bartels, K. S., 3.4
Bartels, W. J., 5.3
Barth, H., 2.7, 5.2
Bartl, H., 3.4
Bartunik, H. D., 3.4
Baru, S. E., 7.1.6
Baruchel, J., 2.8, 7.3
Basile, G., 4.2.2, 5.3
Basinski, Z. S., 4.3.6.2
Basso, R., 9.2.2
Batchelder, D. N., 5.3
Bateman, J. E., 7.1.6
Bateman, O., 3.4
Bates, D. R., 3.4
Bates, F. S., 2.6.2
Batson, P. E., 4.3.4
Battagliarin, M., 2.3
Batterman, B. W., 2.7
Baumhauer, H., 9.2.2
Bauspiess, W., 2.7
Bautz, M. W., 7.1.6
Bayvel, L. P., 2.6.1
Bearden, J. A., 2.3, 4.2.2, 5.2,
 5.3
Beaumont, J. H., 2.3, 2.7,
 4.2.5
Becherer, G., 2.6.1
Becker, J., 4.4.2
Becker, P., 4.2.2, 5.3, 8.7, 9.8
Becker, P. J., 6.3, 6.4, 8.7
Beckman, R. J., 8.5
Bednarski, S., 4.4.2
Bedzyk, M. J., 4.2.3
Beeman, W. W., 2.6.1, 6.3
Begg, G. S., 3.4
Begum, R., 4.2.6
Behlke, J., 2.6.1
Behrendt, D. R., 6.1.1
Bellamy, B. A., 2.3, 5.3
Bellard, S., 9.5, 9.6
Bellis, J. G., 7.1.6
Bellman, R., 6.1.1
Bellotto, M., 2.3, 5.2, 5.3
Belokoneva, E. L., 9.2.2
Belov, N. V., 1.4, 9.2.1
Belsky, V. K., 9.7
Belsley, D. A., 8.2, 8.5
Benedetti, A., 2.3
Beni, G., 4.2.3
Bennett, C. L., 3.4
Benoit, H., 2.6.2
Bentley, J., 8.7
Berendsen, H. J. C., 3.1
Berestetsky, V. B., 4.2.6
Berg, H. M., 5.3
Berg, W. F., 2.7
Bergamin, A., 4.2.2, 5.3
Berger, H., 5.3
Berger, J. O., 8.1
Berger, S. D., 4.3.4
Bergerhoff, G., 9.4, 9.5, 9.6
Bergevin, F. de, 4.2.5, 8.7
Berggren, K.-F., 7.4.3
Bergman, G., 8.3
Bergstrom, J. C., 4.2.1
Bergstrom, P. M. Jr, 4.2.6
Berk, N. F., 2.9
Berkum, J. van, 5.2
Berliner, R., 7.3
Berman, H., 3.2, 3.3
Berman, L. E., 4.2.5
Bernal, J. D., 2.2, 3.2, 4.3.5

AUTHOR INDEX

- Bernard, L., 9.8
 Bernard, Y., 3.1
 Berndtsson, A., 4.2.2
 Berneron, M., 4.4.2
 Bernstein, S., 4.4.2
 Berry, B. S., 2.3
 Bertaut, E. F., 1.4, 8.7, 9.2.1, 9.7
 Bertin, E. P., 4.2.3
 Berzina, T. S., 2.9
 Besson, J. M., 2.5.1
 Beth, H. A., 4.3.3
 Bethe, H., 4.3.4
 Bethe, H. A., 2.4.1, 4.3.1
 Beu, K. E., 5.2, 5.3
 Bevis, M., 5.3
 Bewilogua, L., 7.4.3
 Beyer, H., 4.2.2
 Bhat, H. L., 3.4
 Bhatt, V. P., 3.4
 Bianconi, A., 4.2.3, 4.3.4
 Bickmann, K., 5.3
 Bieber, R. L., 5.3
 Bienenstock, A., 4.2.1, 4.2.3, 4.2.6
 Biggin, S., 5.3
 Biggs, F., 4.3.3, 7.4.3
 Bigler, E., 7.1.6
 Bijvoet, J. M., 2.2, 4.2.6
 Bilderback, D. H., 2.2, 4.2.5
 Binnig, G., 4.3.8
 Bird, D. M., 4.3.2, 4.3.7, 8.8
 Bird, R. B., 8.7
 Birks, L. S., 2.3
 Birnbaum, H. R., 4.2.3
 Bischof, C., 8.1
 Bish, D. L., 2.3, 7.1.4
 Bishop, A. C., 3.1
 Bjerrum Møller, H., 4.4.3
 Black, D. R., 3.4
 Black, R. E., 5.3
 Blackman, M., 2.4.1, 4.3.1, 8.8
 Blair, D. G., 6.4
 Blake, A. J., 2.3
 Blake, R. G., 4.3.7
 Blakeslee, D. M., 3.1
 Blanc, Y., 4.4.2
 Blanton, T. N., 5.2
 Blaschko, O., 9.2.2
 Bläser, D., 3.4
 Blech, I., 9.8
 Bleeksma, J., 2.3
 Bloch, B. J., 7.4.3
 Bloch, F., 4.4.2, 7.4.3
 Block, S., 2.3, 5.1, 5.3
 Blow, D. M., 3.1, 3.4
 Blum, M., 7.1.6
 Blume, M., 4.2.6, 6.1.2, 7.4.3, 8.7
 Blundell, S. A., 4.2.2
 Blundell, T. L., 2.2, 3.1
 Bøe, N., 4.3.7, 8.8
 Boehli, T., 4.2.1
 Boehme, R. F., 8.7
 Boer, D. K. G. de, 2.9
 Boer, J. L. de, 7.5, 9.2.2
 Boerdijk, A. H., 9.2.1
 Boersch, H., 4.3.4
 Boese, R., 3.4
 Boettinger, W. J., 2.7
 Boeuf, A., 2.8
- Boggs, P. T., 8.1
 Böhlen, K. van, 3.4
 Bohlin, H., 2.3
 Boie, R. A., 7.3
 Bojarski, Z., 2.3
 Bokij, G. B., 9.2.2
 Bold, T., 2.3
 Boll-Dornberger, K., 9.2.2
 Bolling, E. D., 4.4.2
 Bolotina, N. B., 5.3
 Bomchil, G., 5.3
 Bond, C. C., 7.1.6
 Bond, W. L., 2.7, 5.3
 Bone, D. A., 7.1.6
 Bonelle, J. P., 4.2.3
 Bongaarts, P. J. M., 4.4.2
 Bonham, R. A., 4.3.3
 Böni, P., 4.4.2
 Bonin, D., 7.1.6
 Bonnet, M., 8.7
 Bonnet, R., 3.4
 Bonse, M., 2.6.2
 Bonse, U., 2.2, 2.3, 2.6.1, 2.7, 4.1, 4.2.2, 4.2.5, 4.2.6, 4.4.2, 5.3
 Bontchev, R., 9.2.2
 Booker, G. R., 5.4.2
 Boom, G., 5.2
 Boothroyd, A. T., 2.6.2
 Borchert, G. L., 4.2.2
 Bordas, J., 2.5.1, 4.1, 5.2, 7.1.6, 9.2.1
 Bordet, J., 2.4.2
 Bordet, P., 3.1
 Borg, I. Y., 2.3
 Borgeaud, P., 5.3
 Borkowski, C. J., 7.1.6, 7.3
 Börner, H. G., 4.2.2
 Borovilova, N. V., 4.4.2
 Borsig, C. S., 7.1.6
 Bosshard, R., 3.4, 7.1.6
 Böttger, G., 4.4.2
 Botton, G. A., 8.8
 Boucherle, J. X., 8.7
 Bouchiat, M. A., 4.4.2
 Bouldin, C. E., 4.2.3
 Boulin, C., 7.1.6
 Bouman, J., 6.2
 Bouquiere, J. P., 3.4
 Bourdel, J., 7.3
 Bourdillon, A. J., 2.5.1, 4.3.4, 5.2
 Bourke, P., 4.2.1
 Bourret, A., 4.3.8
 Bovin, J.-O., 9.2.2
 Bowen, D. K., 2.7, 4.1, 4.2.3, 5.3
 Bowen, T. S., 4.2.1
 Bowman, H. A., 5.3
 Box, G. E. P., 8.1, 8.2
 Boyarskaya, R. V., 4.3.5
 Boyd, R. J., 8.7
 Boyers, D. G., 4.2.1
 Braam, A. W. M., 7.4.2
 Bracewell, R., 2.6.1
 Brádler, J., 2.7
 Brady, R. L., 3.1, 3.4
 Brafman, O., 9.2.1
 Bragg, W. H., 2.2, 2.3, 5.3
 Bragg, W. L., 2.2, 2.6.2, 5.3
 Braillon, P., 3.5
 Brammer, L., 9.5, 9.6
 Brandenburg, K., 9.4
 Breitenstein, M., 4.3.3
 Brenner, R., 7.3
 Brentano, J. C. M., 2.3
 Brese, N. E., 9.1
 Bretherton, L., 3.4
 Briand, J. P., 5.2
 Brice, M. D., 9.5, 9.6
 Bricogne, G., 4.3.7, 7.1.6
 Briggs, E. A., 4.2.4, 4.2.6, 7.4.3
 Brindley, G. W., 9.2.2
 Brister, K. E., 4.2.5
 Britton, D., 3.1
 Brock, C. P., 9.7
 Brockhouse, B. N., 4.4.2
 Brockway, L. O., 4.3.3
 Brodsky, A., 4.2.5
 Brongersma, H. H., 7.1.6
 Brooks, I., 2.2
 Bross, H., 4.3.4
 Brouns, E., 9.8
 Brown, A. S., 4.2.5
 Brown, B. R., 5.3
 Brown, D., 4.2.1
 Brown, D. B., 2.3
 Brown, G. E., 4.2.6
 Brown, G. M., 6.1.1
 Brown, G. S., 4.2.3, 7.4.4
 Brown, H., 1.4, 9.8
 Brown, I. D., 9.4, 9.5, 9.6
 Brown, L. M., 4.3.4, 4.3.8
 Brown, M. C., 9.6
 Brown, N. E., 3.4
 Brown, P. J., 4.4.5, 6.1.2, 8.7
 Brown, R. T., 4.2.4, 4.2.6, 7.4.3
 Brown, W. D., 7.4.3
 Brownell, S. J., 2.3, 5.2
 Brownell, W. E., 2.3
 Bruce, M. I., 9.6
 Brühl, H.-G., 5.3
 Brumberger, H., 2.6.1
 Brunegger, A., 4.3.4
 Brunel, M., 8.7
 Brunner, G. O., 9.1, 9.3
 Brydson, R., 4.3.4
 Brysk, H., 4.2.6
 Bubenzer, A., 4.3.4
 Buchanan, D., 2.3
 Buchanan, J., 8.2
 Buckingham, A. D., 8.7
 Budinger, T. F., 4.3.8
 Budnick, J. L., 4.4.2
 Bueche, A. M., 2.6.1
 Buergel, M. J., 1.4, 2.2, 2.3, 3.4, 5.3, 6.2, 9.2.1
 Buffat, P., 4.4.2
 Buggy, T. W., 4.3.4, 7.2
 Bührer, W., 4.4.2
 Bulkin, B. J., 4.1
 Bülow, H., 9.8
 Bülow, R., 1.4
 Bunch, D. S., 8.1
 Bunge, A. V., 4.3.3
 Bunge, C., 4.3.3
 Bunge, C. F., 4.3.3
 Bunge, H.-J., 4.3.5
 Bunkenburg, J., 4.2.1
 Bunker, B., 4.2.3
 Bunker, G., 4.2.3
 Bunn, C. W., 3.1
 Bunyan, P. J., 4.3.3
 Burany, X. M., 9.2.2
 Buras, B., 2.5.1, 2.5.2, 4.2.1, 4.2.6, 5.2, 5.3, 7.1.5
 Burbank, R. D., 6.2
 Burch, T. J., 4.4.2
 Burdette, H. E., 2.7, 3.4
 Burek, A. J., 4.2.1
 Burge, R. E., 7.2
 Burger, A., 7.1.4
 Burgers, W. G., 2.2
 Burgess, W. G., 8.8
 Burgy, M. T., 4.4.2
 Burke, B. E., 7.1.6
 Burke, J., 5.3
 Burkhardt, E., 7.4.2
 Burla, M. C., 8.6
 Burley, S. K., 3.1
 Burns, R., 7.1.6
 Burr, A. F., 2.3, 4.2.2
 Burshtein, Z., 7.1.4
 Bursill, L. A., 4.3.8
 Buschert, R. C., 5.3
 Buseck, P., 4.3.4
 Buseck, P. R., 4.3.8
 Bushnell-Wye, G., 2.3
 Bushuev, V. A., 7.4.3
 Busing, W. R., 3.4, 5.3
 Butler, D. J., 7.1.6
 Butler, E. P., 3.5
 Butler, M., 2.3
 Butler, R. D., 3.3
 Buttiker, M., 2.9
 Buxton, B. F., 4.3.7
 Bychkova, V. E., 2.6.1
 Byer, R. L., 4.2.1
 Byrd, R. H., 8.1
 Caballero, A., 4.2.3
 Cable, J. W., 9.8
 Caglioti, G., 2.3, 2.4.2, 4.4.3, 8.6
 Cahn, J. W., 9.8
 Cahn, R. W., 1.3
 Calas, G., 4.2.3, 4.3.4
 Calvert, L. D., 2.3, 9.3
 Campbell, J. E., 3.4
 Campos, C., 3.4
 Camps, R. A., 4.3.8
 Capasso, S., 3.1
 Capel, M. S., 2.6.2
 Capellmann, H., 4.4.2
 Caplan, H. S., 4.2.1
 Cardona, M., 4.2.2, 5.3
 Cardoso, L. P., 3.4
 Carlile, C. J., 2.4.2, 4.4.2, 7.4.2
 Carlson, E. H., 9.2.2
 Carroll, C. L., 5.3
 Carpenter, J. M., 4.4.1
 Carr, M. J., 2.4.1
 Carr, P. D., 2.2, 3.4, 5.3
 Carter, C. B., 4.3.8
 Carter, C. W., 3.1
 Carter, C. W. Jr., 3.1
 Cartwright, B. A., 9.5, 9.6
 Carver, T. R., 4.4.2
 Cascarano, G., 8.6
 Cascio, D., 3.4
 Case, A. L., 2.8
 Caspar, D. L. D., 4.4.2
 Cassetta, A., 2.2

AUTHOR INDEX

- Castaing, R., 4.2.1, 4.3.4
 Castelli, C. M., 2.7
 Caticha-Ellis, S., 3.4
 Catti, M., 1.3
 Catura, R. C., 7.1.6
 Cauchois, Y., 4.2.2
 Caudron, B., 7.1.6
 Caulfield, P. B., 5.3
 Causer, R., 2.3, 5.3
 Cavagnero, G., 4.2.2, 5.3
 Cembali, F., 5.3
 Cernik, R., 5.2
 Cernik, R. J., 2.3
 Černohorský, M., 5.3
 Cerva, H., 2.7
 Ceska, T. A., 3.1
 Chadha, G. K., 9.2.1
 Chadi, D. J., 9.1
 Chaimdi, M., 3.4
 Chakera, A., 6.3
 Chamberland, B. L., 9.2.2
 Chambers, F. W., 5.3
 Chambers, W. F., 2.4.1
 Chan Dyk Tkhan, 7.1.6
 Chance, B., 4.2.3
 Chandler, G. S., 6.1.1
 Chandrasekaran, M., 9.2.1
 Chandrashekhar, G. V., 3.1
 Chang, S.-L., 5.3
 Chan Khyo Dao, 7.1.6
 Chantler, C. T., 4.2.6
 Chapman, J. N., 7.2
 Chapuis, G., 4.2.6, 7.5
 Charpak, G., 2.2, 7.1.6
 Chatterjee, S., 8.5
 Chau, K., 4.3.8
 Chayen, N. E., 3.1
 Cheary, R. W., 5.2
 Cheetham, A. K., 2.3, 8.6
 Cheetham, G. M. T., 2.3, 3.1
 Chen, C. H., 4.3.4
 Chen, H., 4.2.3, 4.4.2
 Chen, S. H., 2.6.1, 2.6.2
 Chen, S.-H., 2.9
 Chen-Mayer, H. H., 4.4.2
 Cheng, T. Z., 4.3.8
 Cheremukhina, G. A., 7.1.6
 Chernenko, S. P., 7.1.6
 Chernov, M. A., 9.2.2
 Cherns, D., 4.3.8
 Chesser, N. J., 4.4.2, 4.4.3
 Cheung, S., 4.4.2
 Chevallier, P., 5.2
 Chidambaram, R., 6.1.1
 Chieux, P., 7.3
 Chikawa, J., 7.1.6, 7.1.7, 7.1.8
 Chikawa, J.-I., 2.7
 Chipera, S. J., 7.1.4
 Chipman, D. R., 4.2.3
 Chirino, A. J., 3.1
 Chou, H. P., 7.3
 Chowanietz, E. G., 7.1.6
 Christ, J., 4.4.2
 Christen, D. K., 2.6.2
 Christensen, A. N., 2.3, 7.1.3
 Christoph, A., 5.3
 Chu, B., 7.1.6
 Chung, S. J., 1.3
 Chupp, T. E., 4.4.2
 Chwaszczeńska, J., 2.5.1
 Císařová, I., 9.2.2
 Cisney, E., 2.3
 Citrin, P. H., 4.1, 4.2.3
 Clark, G. F., 2.7
 Clark, S. M., 2.5.1, 3.4
 Clay, R. E., 4.2.1
 Clay, W. T., 7.3
 Cleemann, J. C., 2.6.1
 Clegg, W., 3.4, 5.3
 Clementi, E., 4.4.5, 6.1.1, 6.1.2
 Clifton, I. J., 3.4
 Cline, J. P., 2.3
 Clout, P. N., 7.1.6
 Cochran, W., 5.3
 Cockayne, D. J. H., 4.3.8
 Cocking, S. J., 4.4.2
 Cody, V., 3.1
 Coelho, A., 5.2
 Coene, W., 4.3.8
 Coene, W. M. J., 4.3.8
 Coffman, D., 4.3.3
 Cohen, E. R., 4.2.1, 4.2.2, 4.2.3
 Cohen, G. G., 2.7
 Cohen, J. B., 2.3
 Cohen, M. U., 5.2
 Cohn-Vossen, S., 9.1
 Cole, H., 2.7, 4.2.6, 5.3
 Cole, W. F., 5.3
 Colegrave, F. D., 4.4.2
 Coleman, T. A., 7.1.6
 Collett, B., 7.1.6
 Colliex, C., 4.3.4
 Collins, C. B., 4.2.1
 Collins, D. M., 8.2
 Colwell, J. F., 4.4.2
 Comparat, V., 7.1.3, 7.1.6
 Compton, A. H., 2.3, 2.7, 4.2.1, 5.3
 Condon, E. U., 8.7
 Conger, G. B., 7.1.6
 Conolly, M. L., 3.4
 Conradi, E., 9.2.2
 Constenoible, M. L., 2.3
 Conturie, Y., 4.2.1
 Convert, P., 2.4.2, 7.3
 Conway, J. H., 9.1
 Cook, J. E.,
 Cook, R. D., 8.5
 Cookson, D. J., 4.2.6
 Cooper, A. S., 5.3
 Cooper, C. W., 2.6.1
 Cooper, M. J., 4.2.3, 4.4.3, 6.3, 7.4.2, 7.4.3, 8.6
 Copley, J. R. D., 4.4.2
 Coppens, P., 2.2, 3.4, 6.3, 6.4, 8.7, 9.8
 Cork, C., 2.2
 Cork, C. W., 7.1.6
 Cosier, J., 3.4
 Cosslet, V. E., 4.2.3
 Cosslett, V. E., 4.2.1
 Cotton, J. P., 2.4.2, 7.3
 Cottrell, A., 9.2.1
 Cottrell, A. H., 6.4
 Couderchon, G., 4.4.2
 Coulter, K. P., 4.4.2
 Coulthard, M. A., 4.3.1, 6.1.1
 Couston, J., 2.6.2
 Coutanceau Clarke, J. A. R., 9.7
 Cowley, J. M., 2.4.1, 4.1, 4.3.1, 4.3.2, 4.3.6.1, 4.3.7, 4.3.8, 8.8, 9.2.1, 9.2.2
 Cowley, R. A., 4.4.3
 Cox, A. R., 3.5
 Cox, D. E., 2.3, 2.5.1, 4.2.6, 7.4.4, 8.6, 9.2.2
 Cox, H. L. Jr., 4.3.3
 Cox, M. J., 3.1
 Coyle, B. A., 6.3
 Cracknell, A. P., 6.1.1
 Crain, J., 2.3
 Cramér, H., 8.4
 Craven, A. J., 4.3.4, 7.2
 Craven, B. M., 6.4
 Crawford, F. S., 4.2.3
 Crawford, R. K., 2.9
 Craxton, R. S., 4.2.1
 Creagh, D. C., 4.2.3, 4.2.4, 4.2.5, 4.2.6, 10
 Cressey, G., 2.3
 Crewe, A. V., 4.3.4, 4.3.8
 Crichton, R. R., 2.6.1, 2.6.2
 Croce, P., 2.9
 Cromer, D. T., 4.2.4, 4.2.6, 4.3.1, 6.1.1, 7.4.3, 8.7
 Cross, J. O., 4.2.3
 Crowder, C. E., 2.3, 5.2
 Crowfoot, D., 3.2
 Crozier, E. D., 4.2.3
 Crozier, P. A., 4.3.4
 Cruickshank, D. W. J., 2.2, 3.4, 5.3, 8.3, 8.7
 Cudney, B., 3.1
 Culhane, J. L., 7.1.6
 Cullen, E. E., 4.2.4
 Cullity, B. D., 2.3
 Currat, R., 4.4.2, 7.4.3, 9.8
 Curtis, C. F., 8.7
 Cusack, S., 2.6.2
 Cusatis, C., 4.2.6
 Cuttitta, F., 3.2
 Czerwinski, H., 7.4.3
 Daams, J. L. C., 9.3
 Dabbs, J. W. T., 4.4.2
 Daberkow, I., 4.3.8
 Daberkow, L., 7.2
 Dabrowski, A., 7.1.4
 Dabrowski, A. J., 7.1.5
 Dahl, J. P., 8.7
 Dainton, D., 7.1.6
 Dalglish, R. L., 7.1.6
 Dallas, W. J., 7.1.6
 Dallé, D., 3.4
 Dam, B., 9.8
 Damaschun, G., 2.6.1
 Damaschun, H., 2.6.1
 Dana, E. S., 3.5
 Daniel, V., 9.8
 Daniels, J., 4.3.4
 Daniels, P. J., 7.1.6
 D'Antonio, P., 3.1
 Danz, H., 3.4
 D'Aprile, F., 3.4
 Darriet, B., 9.2.2
 Darriet, J., 9.2.2
 Dartige, E., 7.1.6
 Darwin, C. G., 6.4
 Das Gupta, P., 5.2
 Dash, J. G., 4.4.2
 Dathe, W., 9.2.2
 D'Auria, S., 3.1
 Davanloo, F., 4.2.1
 David, W. I. F., 2.3, 2.5.2, 8.6
 Davidson, E. R., 6.1.1
 Davidson, J. B., 2.8
 Davies, J. E., 9.7
 Davies, N. C., 3.5
 Davies, S. T., 2.7, 4.2.3
 Davis, B. L., 2.3, 5.3
 Dawson, B., 6.1.1
 Day, M. W., 3.1
 Deacon, A., 2.2
 Debye, P., 2.3, 2.6.1, 6.2
 DeCicco, P. D., 7.4.3
 Deckman, H. W., 7.1.6
 Degoy, S., 3.1
 Dehlinger, U., 9.8
 Delaey, L., 9.2.1
 Delamoye, P., 9.8
 De Lange, P. W., 4.4.2
 Delapalme, A., 2.5.2, 4.4.2, 8.7
 Delduca, A., 7.1.6
 Delettrez, J., 4.2.1
 Delf, B. W., 4.2.5, 5.2
 Del Grande, N. K., 4.2.3, 4.2.4
 Delhez, R., 2.3, 5.2
 Dellby, N., 4.3.7, 4.3.8
 Delley, B., 8.7
 Deltour, J., 2.3
 DeLucia, M. L., 8.7
 De Marco, J. J., 4.2.4
 Demasi, D., 3.1
 Demierre, C., 2.2
 Demmel, J., 8.1
 Denesuk, A. I., 2.6.1
 Denley, D., 4.2.3
 Denne, W. A., 3.4
 Denner, W., 5.3
 Dennis, J. E., 8.1
 Dent Glasser, L. S., 3.4
 Depmeier, W., 9.8
 Dereniak, E. L., 7.1.6
 Derewenda, Z., 7.1.6
 Desai, C. F., 3.4
 Descamps, J., 4.2.1
 Desclaux, J. P., 4.2.2, 4.4.5, 6.1.2, 8.7
 Deslattes, R., 5.2
 Deslattes, R. D., 4.2.1, 4.2.2, 5.2, 5.3
 Desseaux, J., 4.3.8
 DeTitta, G. T., 3.1
 Deutsch, M., 2.3, 4.2.2, 4.2.6, 5.3
 Dewan, J. C., 3.4
 Dexpert, H., 4.2.3
 Dexter, D. L., 2.3
 D'Eye, R. W. M., 3.4
 Dickens, B., 8.3
 Dideberg, O., 3.4
 Dietrich, B., 5.3
 Dietz, G., 9.2.2
 Dietz, J., 7.1.6
 DiGiovanni, H. J., 2.3
 Dikovskaya, R. R., 5.3
 Diller, T. C., 3.1
 Dimitrov, D. P., 2.6.1
 Dingley, D. J., 5.3
 Dinnebier, R. E., 8.6
 Di Nova, K., 4.2.1
 Dischler, B., 4.3.4
 Disko, M. M., 4.3.4

AUTHOR INDEX

- Divadeenam, M., 4.4.4
 Dixon, N. E., 3.1
 Dobrzynski, L., 4.4.2
 Dobson, P. J., 4.3.8
 Dodson, G. G., 3.4
 Doi, K., 2.8
 Dolin, R., 7.1.6
 Doll, C., 4.4.2
 Dollase, W. A., 2.3
 Dolling, G., 4.4.2
 Donaldson, J. R., 8.1
 Dongarra, J., 8.1
 Doniach, S., 2.6.1, 4.2.3
 Donnay, G., 1.3
 Donnay, J. D. H., 1.3, 1.4, 9.8
 Dönni, A., 4.4.2
 Donohue, J., 9.7
 Dorenwendt, K., 4.2.2, 5.3
 Dornberger-Schiff, K., 3.4,
 9.2.1, 9.2.2
 Dorner, B., 4.4.3, 7.4.2
 Dorrington, E., 7.1.6
 Dorset, D. L., 3.5, 4.3.7, 4.3.8
 D'Orsi, C. J., 7.1.6
 Doscher, M. S., 3.4
 Doty, J. P., 7.1.6
 Doubleday, A., 9.5, 9.6
 Downing, K. H., 4.3.8
 Downing, R. G., 4.4.2
 Downs, J., 4.3.7, 8.8
 Doyle, P. A., 4.2.4, 4.3.1, 4.3.2,
 6.1.1
 Drabkin, G. M., 4.4.2
 Dragoo, A. L., 5.2
 Draper, N., 8.1, 8.4
 Dreier, P., 4.2.3, 4.2.6
 Drenth, J., 3.1
 Dressler, L., 5.3
 Drits, V. A., 2.4.1, 4.3.5
 Drum, C. M., 3.5
 Drummond, W., 7.1.4
 Duarte, P. W. E. P., 4.2.4
 Dubey, M., 9.2.1
 Duchenois, V., 7.1.6
 Du Croz, J., 8.1
 Ducruix, A., 3.1
 Dudarev, S. L., 4.3.2
 Dudley, M., 2.8
 Duijneveldt, F. B. van, 6.1.1
 Duisenberg, A. J. M., 3.4
 Duke, P. J., 4.2.1
 Düker, H., 4.3.8
 Dumas, P., 3.4
 Du Mond, J. W. M., 2.3, 2.7
 Dunitz, J. D., 9.7
 Dunn, H. M., 5.3
 Dunning, T. H. Jr, 6.1.1
 Dupont, Y., 7.1.6
 Duppich, J., 4.4.2
 Durand, D., 6.1.1
 Durbin, R., 2.2
 Durbin, R. M., 7.1.6
 Durham, J. P., 4.3.4
 Durham, P. J., 4.2.3
 Đurović, S., 9.2.2
 Dürr, J., 4.2.3
 Dušek, M., 9.2.2
 Dvoryankina, G. G., 2.4.1
 Dwiggins, C. W. Jr, 6.3
 Dyson, N. A., 2.3, 4.2.1,
 7.1.6
- Early, J. G., 3.4
 Eastabrook, J. N., 5.3, 7.1.2, 7.5
 Ebeling, G., 4.2.2, 5.3
 Eberhardt, W., 4.1
 Ebert, M., 4.4.2
 Ebisawa, T., 2.9, 4.4.2
 Eckert, J., 4.4.3
 Eddy, M. M., 2.3
 Edington, J. W., 3.5, 5.4.1
 Edwards, H. J., 2.3, 5.2
 Edwards, S. L., 3.4
 Edwards, T. H., 2.3
 Effenberger, H., 9.2.2
 Egelstaff, P. A., 4.4.2
 Egerton, R. F., 4.3.4
 Eggleton, R. A., 9.2.2
 Egidy, T. V., 4.2.2
 Egorov, A. I., 4.4.2
 Eguchi, T., 4.3.7, 8.8
 Ehrenberg, W., 4.2.1
 Eichelle, G., 3.1
 Eigner, W.-D., 2.6.1
 Eikenberry, E. F., 2.7, 7.1.6
 Eisél, J.-L., 3.1
 Eisenberg, H., 2.6.2
 Eisenberger, P., 2.2, 4.1, 4.2.3,
 7.4.3
 Eklund, H., 3.4
 El Korashy, A., 3.4
 Elder, M., 3.4
 Eling, A., 9.1
 Ellinger, Y., 8.7
 Ellis, T., 5.3
 Ellisman, M. H., 7.2
 Elsenhans, O., 4.4.2
 Elsner, G., 7.1.6
 Emberson, D. L., 7.1.6
 Emmerich, C., 2.2
 Endesfelder, A., 4.3.3
 Endoh, H., 4.3.8
 Endoh, T., 7.1.6
 Eng, P. J., 4.2.5
 Enge, H. A., 4.3.4
 Engel, D. H., 4.2.6
 Engel, P., 1.4
 Engel, W., 4.3.4
 Engelman, D. M., 2.6.2
 Englander, M., 2.8
 Engstrom, P., 4.2.5
 Enzo, S., 2.3
 Epstein, J., 4.3.3, 8.7
 Erickson, J. W., 3.4
 Ermer, O., 9.1
 Ernst, R. R., 5.5
 Ertl, G., 4.1
 Escoffier, A., 4.4.2
 Esquivel, R. O., 4.3.3
 Esteva, J. M., 4.3.4
 Evans, B. W., 9.2.2
 Evans, E. H., 3.4
 Evans, H. T., 2.2, 5.2
 Evans, H. T. Jr, 5.3
 Evans, J. C., 3.4
 Evans, R. C., 2.3, 9.7
 Evans, R. G., 3.5
 Ewing, F., 3.1
 Ewins, C., 3.5
 Eyres, B. L., 3.5
- Faber, W., 4.4.2
 Fabian, D. J., 4.2.2
- Fabri, R., 5.3
 Fagherazzi, A., 2.3
 Fagherazzi, G., 2.3
 Fåk, B., 2.8
 Fan, G. Y., 4.3.7, 7.2
 Fan, H. F., 4.3.8
 Fang, Y., 6.2
 Fankuchen, I., 2.3
 Fano, U., 4.3.4, 7.1.6
 Farabaugh, E. N., 3.5
 Farge, Y., 4.2.1
 Farkas-Jahnke, M., 9.2.1
 Farnell, G. C., 7.2
 Farnoux, B., 2.4.2, 7.3
 Farquhar, M. C. M., 5.3
 Faruqi, A. R., 7.1.6
 Fast, G., 9.8
 Favro, L. D., 6.1.1
 Fawcett, T. G., 2.3, 5.2
 Fearon, E. O., 5.3
 Feder, R., 2.3
 Fedorov, B. A., 2.6.1
 Fedorov, V. V., 8.1, 8.4, 8.5
 Fedotov, A. F., 4.3.5, 9.2.2
 Feher, G., 3.1
 Feidenhans'l, R., 2.3, 7.1.3
 Feigin, L. A., 2.6.1, 2.9
 Fejes, P. L., 4.3.4, 4.3.8
 Felcher, G. P., 2.9
 Feldman, C., 4.1
 Feller, W., 6.1.1
 Feng, H.-P., 7.1.6
 Ferguson, I. F., 5.2
 Fermi, E., 4.2.6, 7.4.3, 8.7
 Ferraris, G., 1.3, 4.3.5
 Ferré-D'Amaré, A. R., 3.1
 Festenberg, C. V., 4.3.4
 Fewster, P. F., 5.3
 Fichtner, K., 9.2.2
 Fichtner-Schmittler, H., 9.2.2
 Fields, P. M., 4.3.8
 Figueiredo, M. O., 9.1
 Figueiredo, M. O. D., 9.2.2
 Filhol, A., 3.4
 Filippini, G., 9.7
 Filscher, G., 5.3
 Finger, L. W., 2.3, 2.5.1, 3.4,
 8.3
 Fink, J., 4.3.4
 Fink, M., 4.3.3
 Finlayson, H., 4.2.2
 Finney, J. L., 3.4
 Finzel, B. C., 7.1.6
 Fiori, C. E., 7.1.4
 Fiorito, R. B., 4.2.1
 Fischer, D. G., 5.3
 Fischer, D. W., 4.3.4
 Fischer, J., 3.4, 7.3
 Fischer, K., 2.7, 4.2.6
 Fischer, K. F., 1.4
 Fischer, P., 4.4.2, 5.5
 Fischer, S., 4.4.2
 Fischer, W., 1.4, 9.1
 Fisher, R., 6.1.1
 Fisher, R. G., 3.1
 Fisher, R. M., 4.3.7, 8.8
 FitzGerald, J. D., 4.3.8, 5.4.2
 Fitzsimmons, M., 2.9
 Fjellvåg, H., 2.3, 7.1.3
 Flack, H. D., 1.3, 4.2.2, 5.3, 6.3,
 8.1
- Flank, A. M., 7.1.6
 Fleischer, M., 9.2.2
 Flint, R. B., 7.2
 Flower, H. M., 3.5
 Fock, V., 4.2.6
 Foit, F. F. Jr, 3.4
 Foltyn, T., 4.4.2
 Fomin, V. G., 5.3
 Fontaine, A., 7.1.6
 Fontecilla-Camps, J. C., 3.1
 Ford, W. E., 3.5
 Fordham, J. L. A., 7.1.6
 Förster, E., 4.2.2, 5.3
 Forsyth, J. B., 4.4.2, 4.4.5, 7.3,
 8.7
 Forsyth, J. M., 4.1, 4.2.1
 Forsythe, E., 3.1
 Forte, M., 4.4.2
 Foster, B. A., 7.1.3
 Fouassier, M., 7.1.6
 Fourme, R., 2.2, 3.4, 4.2.1,
 7.1.6
 Fourmond, M., 2.6.2
 Fournet, G., 2.6.1, 2.6.2
 Fournier, T., 3.1
 Fowler, C. E., 7.3
 Fox, A. G., 4.3.1, 4.3.2, 4.3.7,
 6.1.1, 8.8
 Fraaije, J. G. E. M., 3.1
 Fraase Storm, G. M., 3.4
 Frahm, A., 4.2.3
 Frank, F. C., 9.1, 9.2.1
 Frank, J., 4.3.8
 Frankel, R. D., 4.1, 4.2.1
 Frank-Kamenetskii, V. A., 9.2.2
 Franklin, K. R., 2.3
 Franzini, M., 9.2.2
 Fraser, G. W., 7.1.6
 Frauenfelder, H., 3.4
 Freeborn, B. R., 2.6.2
 Freeborn, W. P., 2.3
 Freeman, A. J., 4.4.5, 6.1.2, 8.7
 Freeman, F. F., 4.4.2
 Freer, S. T., 7.1.6
 French, S., 7.5
 Freund, A., 4.2.6, 5.3
 Freund, A. K., 4.2.5, 4.4.2
 Freund, I., 7.4.3
 Frevel, L. K., 2.3, 2.4.1
 Frey, F., 3.4, 4.4.2
 Freymann, D., 7.1.6
 Fricke, H., 4.2.3
 Friedli, H. P., 4.4.2
 Friedman, H., 6.3
 Friedrich, H., 4.4.2
 Friedrich, W., 2.1, 2.2
 Frishberg, C., 8.7
 Fritsch, E., 4.3.4
 Fritsch, M., 4.2.2, 5.3
 Frolova, K. E., 4.3.5
 Frolow, F., 3.4
 Frueh, A. J., 9.2.2
 Fryer, J. R., 3.5, 4.3.8
 Fu, Z. Q., 4.3.8
 Fuchs, H. F., 7.1.6
 Fuchs, R., 4.3.4
 Fuess, H., 3.4, 4.4.2, 8.7
 Fuggle, J. C., 4.2.2, 4.3.4
 Fujii, K., 4.2.2
 Fujii, Y., 4.4.3
 Fujikawa, B. K., 4.2.4, 4.2.6

AUTHOR INDEX

- Fujimoto, I., 2.7, 7.1.6, 7.1.7
 Fujimoto, Z., 4.2.2
 Fujita, T., 7.1.6
 Fujiwara, K., 4.3.1
 Fujiwara, M., 4.2.3
 Fujiyoshi, Y., 4.3.7, 4.3.8
 Fukahara, A., 5.3
 Fukamachi, T., 2.5.1, 5.2, 6.3
 Fukuhara, A., 4.3.7, 4.3.8, 8.8
 Fukumachi, T., 4.2.5
 Fukumori, T., 5.3
 Fuller, W. A., 8.1
 Fuoss, P. H., 4.2.3, 4.2.6
 Furry, W. H., 6.1.1
 Futagami, K., 5.3
 Gabe, E. J., 5.3
 Gabel, K., 4.2.5
 Gabor, D., 4.3.8
 Gabriel, A., 7.1.6
 Gähler, R., 4.4.2
 Gainsford, G. J., 2.3
 Gałdecka, E., 5.3
 Gale, B., 5.2
 Gallo, R., 3.4
 Galloy, J. J., 9.7
 Galy, J., 9.2.2
 Gamarnik, M. Ya., 5.3
 Gamblin, S. J., 3.4
 Gandolfi, G., 2.3
 Ganow, D., 5.3
 Garavito, R. M., 3.1
 Garcia Arribas, A., 9.8
 García-Ruiz, J. M., 3.1
 Gard, J. A., 5.4.1, 9.2.2
 Garfield, B. R. C., 7.1.6
 Garlick, G. F. J., 7.2
 Garman, E. F., 3.4
 Garrett, R., 4.2.5
 Garrett, R. F., 4.2.5
 Garroff, S., 2.9
 Gasgnier, M., 4.3.4
 Gaultier, J.-P., 4.3.5
 Gauthier, J. P., 9.2.1
 Gavezzotti, A., 9.7
 Gavin, R. M. Jr, 4.3.3
 Gavrila, M., 4.2.6, 7.4.3
 Gay, D. M., 8.1
 Gearhart, R. A., 4.2.1
 Gedcke, D. A., 5.2
 Geiger, H., 7.1.2
 Geiger, J., 4.3.3, 4.3.4
 Geist, V., 5.3
 George, B., 2.6.2
 George, J. D., 2.3, 5.3
 Gerber, C., 4.3.8
 Gerdau, E., 5.3
 Gerken, M., 5.3
 Gerlich, R., 9.1
 Gernat, C., 2.6.1
 Gerold, V., 2.7
 Gerstenberg, H., 4.2.3
 Gerstenberg, H. M., 4.2.3, 4.2.4
 Gerward, L., 2.5.1, 2.5.2, 4.2.3,
 4.2.4, 4.2.6, 5.2, 5.3
 Ghose, S., 3.4
 Giacovazzo, C., 8.6
 Gibbons, P. C., 4.3.4
 Gibbs, D., 2.9, 7.4.3, 8.7
 Gibson, K. D., 9.7
 Giegé, R., 3.1
 Gielen, P., 5.3
 Giessen, B. C., 2.3, 2.5.1, 5.2
 Giles, C., 4.2.5
 Gill, P. E., 8.3
 Gillham, C. J., 2.3, 5.2
 Gilliland, G. L., 3.1, 7.1.6
 Gillon, B., 8.7
 Gilmore, C. J., 4.3.7, 4.3.8
 Gilmore, D. J., 7.1.6
 Girgis, K., 9.3
 Gjønnes, J., 4.3.3, 4.3.7, 5.4.2,
 8.8
 Gjønnes, K., 4.3.7, 8.8
 Glaeser, R. M., 4.3.7, 4.3.8
 Glass, H. L., 5.3
 Glatter, O., 2.6.1, 2.6.2
 Glättli, H., 2.6.2, 4.4.4
 Glauber, R., 4.3.3
 Glazer, A. M., 2.5.1, 3.4, 5.2,
 5.3
 Glazer, J., 4.3.7
 Glinka, C. J., 4.4.2
 Glover, I., 3.4
 Glusker, J. P., 2.2
 Gobel, H., 4.2.6
 Göbel, H. E., 2.3, 7.1.3
 Gobert, G., 4.4.2
 Goddard, H. F., 7.1.6
 Goddard, P. A., 2.7
 Godwin, R. P., 4.2.1
 Godwod, K., 5.3
 Goetz, K., 4.2.2, 5.3
 Golay, M. J. E., 2.3
 Goldberg, M., 4.2.1, 8.7
 Goldman, L. M., 4.2.1
 Goldman, M., 4.4.4
 Goldschmidt, V., 9.8
 Goldsmith, C. C., 2.3
 Goldsztaub, S., 4.2.1, 9.2.2
 Golob, P., 4.3.4
 Golovin, A. L., 5.3
 Golub, R., 4.4.2
 Gonschorek, W., 5.3
 Gonzalez, A., 3.4
 Goodhew, P. J., 3.5
 Goodisman, J., 2.6.1
 Goodman, P., 2.4.1, 4.3.6.1,
 4.3.7, 8.8, 9.2.2
 Goodson, J. H., 7.1.6
 Goral, K., 2.6.1
 Gorceix, O., 4.2.2
 Gordon, G. E., 2.3, 2.5.1, 5.2
 Gordon, R. G., 8.7
 Gorshkov, A. I., 4.3.5
 Goto, K., 2.7, 7.1.6, 7.1.7
 Goto, N., 7.1.6, 7.1.7
 Gottschalk, H., 4.3.8
 Gotwals, J. K., 5.3
 Goulon, J., 4.2.5
 Graaff, R. A. G. de, 6.3
 Graafsma, H., 3.4
 Graeff, W., 2.7
 Graeser, S., 9.2.2
 Graf, W., 4.4.2
 Grant, B. K., 2.3
 Grant, D. F., 7.5
 Grant, G. A., 3.5
 Grant, I., 4.3.1, 4.3.2
 Grasselli, J. G., 4.1
 Gratias, D., 9.8
 Graubner, H., 3.2
 Gray, N., 9.2.2
 Grebille, D., 9.8
 Gregor, R. B., 4.3.4
 Green, M., 2.3, 4.2.1
 Green, R. E. Jr, 2.7, 7.1.7
 Greenbaum, A., 8.1
 Greenberg, B., 5.2
 Greene, G. C., 4.4.2
 Greene, G. L., 4.2.2
 Greenhough, T. J., 2.2, 3.4
 Greenwood, J. A., 6.1.1
 Grell, H., 9.2.2
 Grenville-Wells, H. J., 6.2
 Greville, T. N. E., 2.6.1
 Grey, D., 4.2.5
 Griebner, U., 5.3
 Griffith, J. P., 3.4
 Grigson, C. W. B., 2.4.1
 Grimmer, H., 1.3, 4.4.2
 Grimsditch, M. H., 5.3
 Grimvall, G., 4.2.6
 Grinton, G. R., 4.3.8
 Gritsaenko, G. S., 4.3.5
 Gronsky, R., 4.3.8
 Grossi, F., 4.2.5
 Grossman, T., 4.4.2
 Grossso, J. S., 2.3
 Grosswig, S., 5.3
 Groves, G. W., 3.5
 Grubel, G., 4.2.5
 Gruber, E. E., 5.3
 Grünbaum, B., 9.1
 Gruner, S. M., 2.7, 7.1.6
 Grunes, L. A., 4.3.4
 Gschneider, K. Jr, 9.3
 Guagliardi, A., 8.6
 Gubbens, A. J., 4.3.7
 Gudat, W., 4.3.4
 Guetter, E., 7.2
 Guggenheim, S., 9.2.2
 Guidi-Morosini, C., 6.3
 Guigay, J. P., 2.8
 Guillemet, E., 7.1.6
 Guinet, P., 4.4.2
 Guinier, A., 2.3, 2.6.1, 2.6.2,
 2.7, 4.3.5, 9.2.2
 Gumbel, E. J., 6.1.1
 Günther, W., 9.2.2
 Guo, C.-L., 4.2.1
 Guo, S. Y., 3.2
 Gupta, S. K., 3.5
 Gurman, S. J., 4.2.3
 Guttmann, P., 7.1.6
 Guyot, P., 2.6.2
 Gyax, F. N., 4.1
 Hausermann, D., 4.2.5
 Haag, F., 9.1
 Haas, J., 2.6.1, 2.6.2
 Habash, J., 2.2, 3.4
 Hadi, A. S., 8.5
 Haendler, H. M., 3.4
 Haga, K., 4.2.3
 Hagashi, Y., 5.3
 Hagemann, H. J., 4.3.4
 Hagen, W., 2.7
 Hägg, G., 2.2
 Hahn, Th., 1.3, 1.4, 5.3, 9.2.2,
 9.7
 Haider, M., 4.3.8
 Hails, J. E., 2.2
 Hainisch, B., 2.6.1
 Hajdu, J., 3.4
 Hale, K. F., 3.5
 Hales, T. C., 9.1
 Halfon, Y., 3.4
 Hall, E. L., 5.3
 Hall, M. M. Jr., 2.3
 Halliwell, M. A. G., 5.3
 Hamacher, E. A., 2.3
 Hamelin, B., 4.4.2
 Hamid, S. A., 9.2.2
 Hamill, G. P., 2.3, 5.2
 Hamilton, J. F., 7.2
 Hamilton, L. D., 2.6.1
 Hamilton, R., 2.3, 5.2
 Hamilton, W., 2.9
 Hamilton, W. A., 2.9
 Hamilton, W. C., 2.2, 5.3, 6.4,
 7.5, 8.3, 8.4, 8.7
 Hamley, I. W., 2.9
 Hamlin, R., 2.2, 3.4, 7.1.6
 Hammarling, S., 8.1
 Hanawalt, J. D., 2.3
 Hanfland, M., 4.2.5
 Hanic, F., 5.3
 Hann, R. A., 3.5
 Hanneman, R. E., 5.3
 Hansen, N. K., 4.1
 Hansen, P. G., 4.2.2
 Hanson, H. P., 4.3.3
 Hanson, I. R., 3.4
 Harada, J., 4.2.5, 7.4.2
 Harada, Y., 4.3.7, 7.2
 Harding, M. M., 2.2, 2.3, 3.1,
 3.4, 5.3
 Hardman, K. D., 3.4
 Harlos, K., 3.1
 Harmon, H. E., 4.4.2
 Harmony, M. D., 9.5, 9.6
 Harper, R. G., 3.5
 Harris, J. L., 4.2.1
 Harris, K. D. M., 8.6
 Harris, L. J., 7.1.6
 Harris, N., 5.3
 Harrison, D. C., 7.1.6
 Harrison, S. C., 2.2, 7.1.6
 Harrison, W. T. A., 2.3
 Hart, M., 2.2, 2.3, 2.5.1, 2.6.1,
 2.6.2, 2.7, 4.2.2, 4.2.5, 4.2.6,
 4.4.2, 5.2, 5.3
 Hartl, W. A. M., 4.3.4
 Hartmann, H., 3.4
 Hartmann, W., 2.7
 Hartmann-Lotsch, I., 4.2.6
 Hartree, D. R., 4.2.6, 7.4.3
 Hartshorne, N. H., 3.1, 3.3
 Härtwig, J., 4.2.2, 5.3
 Haruta, K., 2.7
 Hasegawa, K., 7.1.6
 Hasegawa, T., 5.3
 Hashimoto, H., 2.7, 4.2.6, 4.3.8
 Hashizume, H., 2.2, 2.3, 2.7,
 4.2.5, 7.1.3, 7.4.4
 Hasnain, S. S., 4.2.3
 Hastings, J. B., 2.2, 2.3, 4.2.3,
 4.2.6, 7.4.4, 8.6
 Hastings, T. J., 3.4
 Haszlo, S. E., 7.1.7
 Hatton, P. D., 2.3
 Hattori, S., 4.2.6
 Haubold, H. G., 7.1.6

AUTHOR INDEX

- Haumann, J., 2.9
 Hauptmann, H., 3.2
 Häusermann, D., 2.5.1, 5.3
 Hautecler, S., 4.4.2
 Hawkes, D. J., 4.2.4
 Hawthorne, F. C., 9.6
 Hayakawa, K., 2.7, 6.3, 7.1.6
 Hayes, C., 4.4.2
 Hayter, J. B., 2.6.2, 2.9, 4.4.2
 Hazen, R. M., 2.5.1, 3.4
 Heal, K. M., 3.4
 Heald, A., 4.2.3
 Heath, M. T., 8.1
 Heathman, S. P., 4.4.2
 Hebert, H., 5.3
 Heckingbottom, R., 5.3
 Hedman, B., 7.1.5
 Heesch, H., 9.1
 Hehn, R., 4.4.2
 Heidorn, D. B., 2.6.1
 Heigl, A., 3.2
 Heil, W., 4.4.2
 Heine, S., 2.6.1
 Heine, V., 4.3.4, 9.8
 Heinrich, A. R., 9.2.2
 Heinrich, K. F. J., 4.2.4, 7.1.4
 Heise, H., 5.3
 Heisenberg, W., 4.3.3
 Hellings, G. J. A., 7.1.6
 Helliwell, J. R., 2.1, 2.2, 2.3,
 3.1, 3.4, 4.2.1, 4.2.3, 4.2.6,
 7.1.6
 Helliwell, M., 3.1
 Hellkötter, H., 4.2.6
 Hellner, E., 7.1.1, 8.7, 9.1
 Helmholdt, R. B., 7.4.2
 Hemley, R. J., 2.5.1
 Henderson, R., 4.3.8
 Henderson, R. J., 4.3.7
 Hendricks, R. W., 2.6.1, 7.1.6
 Hendricks, S., 9.2.1
 Hendrickson, W. A., 3.2, 4.2.6,
 8.3
 Hendrix, J., 2.6.1, 7.1.6
 Henins, A., 4.2.2, 5.2, 5.3
 Henke, B. L., 4.2.4, 4.2.6
 Hennig, M., 3.1
 Henning, A., 4.2.6
 Henriksen, K., 3.4
 Henry, L., 4.3.4
 Henry, N. F. M., 2.2, 3.1, 5.3
 Hensler, D. H., 2.3
 Heo, N. H., 3.4
 Hepp, A., 2.3, 8.6
 Herbstein, F. H., 5.3
 Herino, R., 5.3
 Herpin, A., 9.8
 Herrman, K., 4.3.8
 Herrmann, K.-H., 4.3.4, 7.2
 Hertz, G., 4.2.3
 Hestenes, M., 8.3
 Heuss, K. L., 3.4
 Hewat, A. W., 2.4.2, 5.5, 8.6
 Hewett, C. A., 2.3
 Hewitt, R., 4.2.3
 Hey, P. D., 2.4.2, 4.4.2
 Heynes, G. D., 7.1.7
 Hezemans, A. M. F., 3.1
 Hickling, N., 3.2
 Hida, M., 4.2.3
 Hidaka, M., 2.5.1, 5.2
 Higashi, T., 2.2, 3.4
 Higgins, S. A., 4.4.3
 Higgs, H., 9.5, 9.6
 Hiismäki, P., 4.4.2
 Hikaru, T., 4.2.3
 Hilbert, D., 9.1
 Hilczer, B., 5.3
 Hildebrandt, G., 2.7
 Hilderbrandt, R. L., 4.3.3
 Hill, R. J., 2.3
 Hilleke, R. O., 2.9
 Hillier, J., 4.3.4
 Hilton, M. R., 4.3.7
 Himes, V. L., 2.4.1, 9.7
 Himmelblau, D. M., 8.4
 Hines, W. A., 4.4.2
 Hinze, E., 5.2, 5.3
 Hirabayashi, M., 4.2.3
 Hirabayashi, M., 5.3
 Hiraga, K., 4.3.8
 Hirai, T., 2.7, 7.1.6, 7.1.7
 Hirano, T., 7.1.6
 Hirota, F., 4.3.3
 Hirs, C. H. W., 2.2
 Hirsch, P. B., 2.3, 3.5, 4.3.6.2,
 4.3.8, 5.4.1
 Hirshfeld, F. L., 7.5, 8.7
 Hirshfelder, J. O., 8.7
 Hirvonen, J.-P., 2.9
 Hitchcock, A. P., 4.3.4
 Hjelm, R. P., 2.6.2
 Ho, A. H., 4.2.1
 Ho, M. M., 4.3.7
 Hoaglin, D. C., 8.2
 Hobbs, L. W., 3.5
 Hock, R., 4.4.2
 Hodeau, J. L., 3.1
 Hodges, C. H., 4.3.4
 Hodgson, K. O., 2.6.1, 4.2.3,
 4.2.6, 7.1.5
 Hoerni, J. A., 4.3.3
 Hofer, F., 4.3.4
 Hofer, M., 2.6.1
 Hoff, R. W., 4.2.2
 Hoffmann, H., 2.6.1, 2.6.2
 Hoffmann, R., 4.3.4
 Hofmann, A., 4.2.1
 Hofmann, D., 4.4.2
 Hofmann, E. G., 2.3
 Høghøj, P., 4.4.2
 Hohberger, H. I., 4.3.4
 Hohenberg, P., 8.7
 Hohlwein, D., 3.4, 7.3
 Höhne, E., 9.2.2
 Høier, R., 4.3.7, 5.4.2, 8.8
 Holden, N. E., 4.4.4
 Holladay, A., 8.7
 Holland, F. M., 3.5
 Holmes, K. C., 2.6.1, 3.4
 Holmestad, R., 4.3.7, 8.8
 Holmshaw, R. T., 7.1.6
 Holt, S. A., 4.2.5
 Holý, V., 2.9, 5.3
 Holzapfel, W. B., 2.5.1
 Hölzer, G., 4.2.2, 5.3
 Hom, T., 5.3
 Honess, A. P., 3.5
 Hong, S.-H., 5.3
 Honjo, G., 2.4.1, 9.2.1
 Honkimaki, V., 4.2.1
 Hönl, H., 4.2.6
 d'Hooghe, P., 4.4.2
 Hope, H., 3.4
 Hopf, R., 7.1.6
 Hoppe, W., 2.6.2
 Horisberger, M., 4.4.2
 Horita, Z., 4.3.7, 8.8
 Horuchi, S., 4.3.8
 Hornstra, J., 3.4
 Horota, F., 4.3.3
 Horstmann, M., 2.4.1
 Horváth, J., 5.3
 Hosemann, R., 2.6.1, 2.7
 Hosokawa, N., 5.3
 Hosoya, S., 2.5.1, 2.8, 4.2.6,
 5.2, 9.2.1
 Hossfeld, F., 2.6.1, 2.6.2, 4.4.2
 Hovmöller, S., 3.4, 4.3.7
 Howard, A., 2.2
 Howard, A. J., 7.1.6
 Howard, C. J., 2.4.2
 Howard, S. A., 2.3
 Howard, W., 9.2.2
 Howerton, R. J., 4.2.4, 4.2.6,
 7.4.3
 Howes, M. J., 7.1.6
 Howie, A., 3.5, 4.3.6.2, 4.3.7,
 4.3.8, 5.4.1
 Hoya, H., 3.4
 Hoylaerts, M., 2.6.1
 Hsiang, W. Y., 9.1
 Hsu, B. T., 3.1
 Hu, H.-C., 6.2
 Huang, D. X., 4.3.8
 Huang, T. C., 2.3, 5.2, 8.6
 Hubbard, C., 2.3, 5.2
 Hubbard, C. R., 2.3, 5.1, 5.2, 5.3
 Hubbard, K. M., 2.9
 Hubbard, S. T., 2.6.1
 Hubbell, J. H., 4.2.3, 4.2.4,
 4.2.6, 7.4.3
 Huber, H., 3.4
 Huber, P. J., 8.2
 Huber, R., 6.3
 Huffman, F. N., 4.2.2
 Huggins, F. G., 2.3
 Hughes, D. J., 4.4.2
 Hughes, G., 7.1.6
 Hughes, J. W., 7.1.2, 7.5
 Hughes, T. E., 5.2
 Huke, K., 4.2.1
 Hull, A. W., 2.3
 Hüller, A., 6.1.1
 Hulme, R., 5.3
 Hulubei, H., 4.2.2
 Humboldt, H., 4.4.2
 Huml, K., 5.3
 Hummelink, T., 9.5, 9.6
 Hummelink-Peters, B. G., 9.5,
 9.6
 Humphreys, C. J., 4.3.6.2, 8.8
 Hundt, R., 9.4, 9.5, 9.6
 Hunter, B., 8.6
 Hunter, J. S., 8.1
 Hunter, W. G., 8.1
 Hustache, R., 2.8
 Hutchings, M. T., 4.4.6
 Hutchinson, J. L., 4.3.8
 Hutchison, J. L., 9.2.2
 Huxham, M., 3.5
 Huxley, H. E., 7.1.6
 d'Huysser, A., 4.2.3
 Huyton, A., 5.2
 Huzinaga, S., 6.1.1
 Hwang, S. R., 4.4.2
 Hyde, S. T., 9.1
 Hyman, A., 3.5
 Hyogah, H., 4.2.6
 Ianson, K. J., 2.6.1
 Ibach, H., 4.3.4
 Ibel, K., 2.4.2, 2.6.1, 2.6.2,
 4.4.2, 7.3
 Ibers, J. A., 4.3.1
 Ichimiya, A., 4.3.7, 8.8
 Ievinš, A., 5.3
 Ihara, H., 4.2.3
 Ihringer, J., 3.4
 Iijima, S., 4.3.8, 9.2.2
 Iijima, T., 4.3.3
 Ikeda, S., 4.2.3
 Ikhlef, A., 7.1.6
 Illini, Th., 7.4.2
 Imada, K., 3.4
 Imai, K., 5.3
 Imamov, R. M., 2.4.1, 5.3
 Immirzi, A., 8.6
 Imura, T., 5.3
 Inagaki, Y., 7.3
 Inagami, T., 3.4
 Incoccia, L., 4.2.3
 Indelicato, P., 4.2.2
 Ingrin, J., 9.2.2
 Inkinen, O., 2.3
 Inokuti, M., 4.3.4
 In't Veld, G. A., 7.1.6
 Inzaghi, D., 5.3
 Irie, K., 5.3
 Isaacs, N. W., 3.4, 9.5, 9.6
 Isaacson, M., 4.3.4
 Isaacson, M. S., 4.3.4
 Isherwood, B. J., 5.3
 Ishida, K., 4.2.6
 Ishigaki, A., 2.5.1
 Ishiguro, T., 4.2.3
 Ishikawa, T., 2.7, 4.2.5, 4.2.6
 Ishima, T., 4.2.1, 4.2.3
 Ishizawa, N., 3.4
 Ishizuka, K., 4.3.8, 7.2
 Isoda, S., 7.2
 Isokawa, K., 5.3
 Isozaki, Y., 7.1.6
 Israel, H., 4.2.6
 Israel, H. I., 4.2.4
 Ito, M., 2.7, 7.1.6, 7.1.8
 Ito, T., 9.2.2
 Ivanov, A. B., 7.1.6
 Iwai, S., 3.4
 Iwanczyk, J., 7.1.4
 Iwanczyk, J. S., 7.1.5
 Iwasaki, N., 4.2.6
 Izdkovskaya, T. V., 9.2.2
 Jack, A., 8.3
 Jäckel, K.-H., 5.3
 Jackson, D. F., 4.2.4
 Jacob, M., 9.7
 Jacobé, J., 2.4.2, 7.3
 Jacobs, L., 2.7, 4.2.2
 Jacobs, S., 4.2.1
 Jacobson, R. A., 3.4
 Jacrot, B., 2.6.2
 Jagner, S., 9.2.2

AUTHOR INDEX

- Jagodzinski, H., 2.3, 3.4, 9.2.1,
9.2.2
Jahn, H. A., 7.4.2
Jain, P. C., 9.2.1
James, R. W., 4.2.6, 5.3, 6.3,
7.4.2
James, V. J., 7.1.6
James, W. J., 5.3
Jancarik, J., 3.1
Jäning, G. R., 2.6.1
Janin, J., 3.1
Janner, A., 9.8
Janot, C., 2.6.2
Jansen, J., 3.5
Jansonius, J. N., 3.1
Janssen, R. W., 4.3.4
Janssen, T., 9.8
Jap, B. K., 4.3.7, 4.3.8
Jarchow, O., 9.2.2
Järvinen, M., 2.3
Jäschke, J., 5.3
Jauch, J. M., 7.4.3
Jauch, W., 2.5.2
Jaynes, E. T., 8.2
Jeffery, J. W., 2.2, 3.1, 3.4
Jeffrey-Hay, P., 6.1.1
Jeitschko, W., 2.3
Jelinsky, P., 7.1.6
Jolley, E. E., 3.3
Jellinek, F., 9.8
Jelonek, S., 8.6
Jenkins, R., 2.3, 4.2.1, 5.2
Jennings, L. D., 4.2.3, 4.2.5,
7.4.4
Jensen, L. H., 2.2, 3.1, 3.4, 5.3
Jensen, T., 2.5.1
Jephcoat, A. P., 2.5.1
Jepsen, O., 4.3.4
Jesson, D. E., 4.3.8
Jiang, S.-S., 2.7
Johann, H. H., 2.3
Johansson, T., 2.3
Johnson, A. L., 4.3.4
Johnson, A. W. S., 4.3.8, 5.4.1,
5.4.2
Johnson, C. A., 9.2.1
Johnson, C. K., 6.1.1, 8.3
Johnson, D., 4.3.4
Johnson, D. E., 4.3.4
Johnson, D. W., 4.3.4
Johnson, G. G. Jr, 2.4.1
Johnson, J. E., 3.4
Johnson, K. H., 4.3.4
Johnson, L. N., 2.2, 3.1, 3.4
Johnson, L. R., 5.3
Johnson, M. W., 2.5.2
Johnson, O., 9.7
Johnson, R. W., 8.2
Johnson, W. R., 4.2.2
Johnston, D. F., 8.7
Johnston, J., 3.2
Jones, A., 3.4
Jones, A. R., 2.6.1
Jones, E. Y., 3.4
Jones, P. M., 4.3.6.2, 5.4.2
Jones, R. C., 7.1.6
Jones, R. M., 9.2.1
Jong, W. F. de, 6.2
Jonson, B., 4.2.2
Jorde, C., 2.6.1
Jorgensen, J. D., 2.5.2, 5.5, 8.6
Jørgensen, J.-E., 6.4
Jostsons, A., 4.3.7
Jouffrey, B., 4.3.4
Joy, D. C., 4.2.3, 4.3.4
Jucha, A., 7.1.6
Jurnak, F., 3.1
Kaat, E. de, 5.3
Kabra, V. K., 9.2.1
Kabsch, W., 3.4
Kaesberg, P., 2.6.1
Kaesberg, P. J., 2.6.1
Kafadar, K., 8.5
Kahn, R., 2.2, 3.4, 7.1.6
Kahovec, L., 2.6.1
Kainuma, Y., 8.8
Kaiser, A., 7.1.7
Kaiser, W., 4.4.2
Kajantie, K., 7.4.3
Kakinoki, J., 9.2.1
Kakudo, M., 4.3.5
Kakuta, N., 4.3.3
Kalata, K., 7.1.6
Kalenik, J., 3.1
Kalinin, Y. G., 4.2.1
Kalman, Z. H., 2.5.1, 5.3, 9.2.1
Kalnajs, J., 5.3
Kalus, J., 2.6.1, 2.6.2
Kamada, K., 2.8
Kambe, K., 4.3.4, 4.3.7, 4.3.8
Kaminaga, U., 7.4.4
Kamino, N., 4.2.3
Kamiya, K., 7.1.8
Kamiya, N., 7.1.6
Kammerer, O. F., 4.4.2
Kampermann, S. P., 6.4
Kane, P. P., 4.2.4, 4.2.6
Kaneko, F., 9.2.2
Kantor, B., 5.3
Kaplow, R., 2.3, 6.3
Kappler, E., 2.7
Karamura, T., 6.3
Karellas, A., 7.1.6
Karen, V. L., 9.7
Kariuki, B. M., 2.3, 3.1
Karle, I. L., 4.3.3
Karle, J., 4.2.6, 4.3.3
Karlsson, R., 3.1
Karnatak, R. C., 4.3.4
Karplus, M., 3.4
Kasai, N., 4.3.5
Kasman, Ya. A., 4.4.2
Kasper, J. S., 6.2, 9.1, 9.2.1, 9.7
Katayama, C., 6.3
Kato, A., 9.2.2
Kato, H., 7.1.6, 7.1.8
Kato, N., 2.7, 6.3
Katoh, H., 4.2.6
Katoh, T., 7.2
Katsube, Y., 3.4
Kaucic, V., 3.1
Kaufmann, E. N., 4.1
Kavinki, B. M., 8.6
Kawaminami, M., 5.2, 5.3
Kawamura, T., 2.7, 4.2.5, 7.1.7
Kawamura, T. W., 7.1.6
Kawasaki, M., 4.3.8
Kawasaki, T., 4.2.1
Kawata, H., 5.3
Kay, M. I., 6.1.1
Keast, D. J., 3.5
Keeney, R. B., 4.3.4, 7.2
Keijser, Th. H. de, 2.3, 5.2
Keil, P., 4.3.4
Kellar, J. N., 2.3
Keller, H. L., 5.3
Kelley, D. M., 3.4
Kelley, M. H., 4.3.3
Kelly, A., 3.5
Kelly, E. H., 5.2
Kelly, P. M., 4.3.7
Kendall, M. G., 6.1.1
Kendrick, H., 6.2
Kennard, C. H. L., 3.4
Kennard, O., 9.5, 9.6, 9.7
Kephart, J. O., 4.2.1
Kessler, E., 4.2.2
Kessler, E. G., 4.2.2, 5.2
Kessler, E. G. Jr, 4.2.2
Kessler, J., 4.3.3
Ketkar, S. N., 4.3.3
Keve, E. T., 8.5
Khabakhshev, A. G., 7.1.6
Kharitonov, Yu. I., 4.2.4
Kheiker, D. M., 5.3, 7.1.6, 7.5
Khejker, D. M., 5.2
Khomyakov, A. P., 9.2.2
Kihara, H., 4.3.7
Kihn, Y., 4.3.4
Kikuta, S., 2.7, 4.2.5
Killat, U., 4.3.4
Killean, R. C. G., 7.5
Kim, S., 3.4
Kim, S.-H., 3.1
Kim, Y. K., 4.2.2
Kim, Y. S., 8.7
Kimura, M., 4.3.3
Kimura, T., 4.2.3
Kincaid, B. M., 2.2, 4.1, 4.2.3
Kind, R., 9.8
King, H. E. Jr, 2.3
King, H. W., 2.3, 5.2
King, J. S., 6.2
King, M. V., 3.4, 6.1.1
King, Q. A., 4.3.2, 8.8
Kirfel, A., 4.2.6
Kirisits, M. J., 3.1
Kirk, D., 5.3
Kirkham, A. J., 5.3
Kirkland, A., 4.3.8
Kirkpatrick, H., 2.3
Kirkpatrick, H. B., 3.5
Kirkpatrick, P., 4.2.1
Kirste, R. G., 2.6.1, 2.6.2
Kishimoto, S., 7.1.8
Kishino, S., 2.7, 5.3
Kisker, E., 4.3.4
Kissel, L., 4.2.4, 4.2.6
Kiszenick, W., 5.3
Kitagawa, Y., 9.2.2
Kitaigorodskii, A. I., 9.7
Kitaigorodsky, A. I., 9.1, 9.7
Kitajgorodskij, A. I., 9.7
Kitano, T., 2.7
Kittner, R., 5.3
Kjeldgaard, M., 2.6.2
Klapper, H., 1.3
Kleb, R., 2.9
Klein, A. G., 4.4.4
Klein, O., 7.4.3
Klemperer, O., 4.3.4
Kliewer, K., 4.3.4
Klimanek, P., 4.4.2
Kloos, G., 2.3
Kloot, N. H., 8.4
Klug, A., 4.1
Klug, H. P., 2.3, 3.4, 5.1, 6.2
Knibbeler, C. L. C. M., 7.1.6
Knipping, P., 2.1, 2.2
Knoll, W., 2.6.2
Knop, W., 2.6.2
Knop, W. E., 1.4
Knox, J. R., 3.4
Ko, T.-S., 3.4
Kobayakawa, M., 4.2.1
Kobayashi, J., 5.3
Kobayashi, K., 4.2.6, 4.3.8
Kobayashi, M., 9.2.2
Kobayashi, T., 4.3.8, 7.2
Kobayashi, Y., 4.2.6
Koch, A., 7.1.6
Koch, B., 4.2.4
Koch, E., 1.1, 1.2, 1.3, 9.1
Koch, E. E., 4.2.1
Koch, M., 4.4.2
Koch, M. H. J., 2.6.1, 2.6.2
Koch, M. J. H., 7.1.6
Koehler, W. C., 9.8
Koester, L., 4.4.4
Kogan, V. A., 5.2
Kogiso, M., 4.3.7, 5.4.2
Koh, F., 6.3
Kohl, D. A., 4.3.3
Kohl, H., 4.3.2
Kohler, H., 2.3, 7.4.2
Kohler, T. R., 7.1.4
Kohn, W., 4.2.6, 8.7
Kohra, K., 2.2, 2.7, 4.2.3, 4.2.5
Koidl, P., 4.3.4
Koike, H., 4.3.8
Kolpakov, A. V., 4.1
Komarov, F. F., 4.2.5
Komem, Y., 5.3
Komoda, T., 4.3.8
Komura, Y., 9.2.1
Konaka, S., 4.3.3
Kondrashkina, E. A., 5.3
Konnert, J. H., 3.1, 8.3
Kopfmann, G., 6.3
Kopp, M., 7.1.6
Kopp, M. K., 7.3
Koptsik, V. A., 1.4, 9.8
Kordes, E., 9.3
Korekawa, M., 9.8
Koritsanszky, T., 8.7
Korneev, D. A., 4.4.2
Korolev, V. D., 4.2.1
Korytár, D., 5.3
Koshiji, N., 5.3
Kossel, W., 5.3
Kostarev, A. L., 4.2.3
Kosten, K., 3.4
Kostorz, G., 2.6.2
Kostroun, V. O., 2.7
Kosugi, N., 4.3.4
Kottke, T., 3.4
Kovalchuk, M. V., 5.3
Kovev, E. K., 5.3
Kowalczyk, R., 5.3
Kowalski, M., 9.2.2
Koyama, K., 7.1.6
Kozaki, S., 2.3, 4.2.1, 4.2.6
Kraft, S., 4.2.2

AUTHOR INDEX

- Krahel, D., 4.3.4, 4.3.7, 7.2
 Kraimer, M. R., 7.1.6
 Kramers, H. A., 4.2.1
 Kranold, R., 2.6.1
 Kratky, C., 3.4
 Kratky, O., 2.6.1, 2.6.2
 Krause, M. O., 6.3
 Krauss, M., 8.7
 Krec, K., 7.4.2
 Kreinik, S., 7.1.7
 Kretschmer, R.-G., 9.2.2
 Krigbaum, W. R., 2.6.1
 Krijgsman, P. C. J., 2.6.2
 Krinari, G., 4.3.5
 Krinary, G. A., 4.3.5
 Krishna, P., 9.2.1, 9.2.2
 Krivanek, O. L., 4.3.4, 4.3.7,
 4.3.8, 7.2, 8.8
 Kröber, R., 2.6.1
 Kroeger, K. S., 3.4
 Kröger, E. Z., 4.3.4
 Kroll, N. M., 4.2.2
 Kronig, R. de L., 4.2.3
 Kroon, J., 3.1
 Kruger, E., 4.4.2
 Kruit, P., 4.3.4
 Krumpolc, M., 2.6.2
 Kshevetsky, S. A., 5.3
 Kuban, R.-J., 9.2.2
 Kubena, J., 2.9, 5.3
 Kucharczyk, D., 5.3, 9.8
 Kuchitsu, K., 9.2.2
 Kuczkowski, R. L., 9.5, 9.6
 Kudo, S., 5.3
 Kudriashov, V. A., 4.4.2
 Kuetgens, U., 4.2.2
 Kugasov, A. G., 4.4.2
 Kügler, F. R., 2.6.1
 Kuh, E., 8.2, 8.5
 Kühl, W., 2.7
 Kühlbrandt, W., 4.3.7
 Kuhn, K., 4.2.1
 Kuhs, W. F., 6.1.1
 Kujawa, S., 7.2
 Kulda, J., 4.4.2
 Kulenkampff, H., 4.2.1
 Kulipanov, G. N., 4.2.1
 Kulpe, S., 3.4
 Kumachov, M. A., 4.2.1
 Kumada, J., 7.1.6
 Kumakov, M. A., 4.2.5
 Kumaraswamy, S., 3.4
 Kumosinski, T. F., 2.6.1
 Kündig, W., 4.1
 Kundrot, C. E., 3.2, 3.4
 Kuntz, I. D. Jr., 3.4
 Kunz, A. B., 4.3.4
 Kunz, C., 4.1, 4.2.1, 4.3.4
 Kunze, G., 2.3
 Küppers, H., 5.3
 Küppers, J., 4.1
 Kupriyanov, M. F., 5.2
 Kurbatov, B. A., 5.3
 Kurittu, J., 7.4.2
 Kuriyama, M., 2.7, 7.1.7
 Kuriyama, T., 7.1.7
 Kuriyan, J., 3.4
 Kurki-Suonio, K., 6.1.1
 Kuroda, H., 4.2.3, 4.3.4
 Kuroda, K., 2.8
 Kuroiwa, T., 8.8
 Kurz, R., 7.3
 Kusev, S. V., 4.2.1
 Küster, A., 3.4
 Kutschabsky, L., 9.2.2
 Kutzler, F. W., 4.2.3
 Kuyatt, C. E., 4.2.2, 4.3.4
 Kuz'min, R. N., 4.1, 7.4.3
 Kuznetsov, P. I., 6.1.1
 Kvick, Å., 5.3
 Kwong, P. D., 3.2
 Laan, G. van der, 4.3.4
 Laban, G., 9.2.2
 Labergerie, D., 4.2.5
 Labzowsky, L., 4.2.2
 Laclare, J. L., 4.2.1
 Ladd, M. F. C., 3.1
 Ladell, J., 2.3, 5.2
 Ladner, J. E., 3.1
 Lafferty, W. J., 9.5, 9.6
 Lagasse, A., 3.5
 Laggner, P., 2.6.1
 Lagomarsino, S., 2.8
 Laguitton, D., 5.2
 Lähteenmäki, I., 2.5.1
 Laine, E., 2.5.1
 Lairson, B. M., 2.2
 Lambert, N., 2.6.1
 Lamoreaux, R. D., 7.1.6
 Lampton, M., 7.1.6
 Landau, L., 4.3.4
 Lander, G., 4.4.1
 Landre, J. K., 2.7
 Lang, A. R., 2.3, 2.7, 5.3
 Lang, W., 4.2.2
 Lange, B. A., 3.4
 Lange, G., 3.4
 Langer, J. A., 2.6.2
 Langford, J. I., 2.3, 5.2, 6.2,
 7.1.2
 Langridge, R., 2.6.1
 Lanz, H. Jr., 3.2
 Lapington, J. S., 7.1.6
 La Placa, S. J., 8.7
 LaRock, J. G., 4.4.2
 Larsen, E. S. Jr., 3.3
 Larsen, F. K., 3.4
 Larsen, P. K., 4.3.8
 Larson, A. C., 3.4, 8.7
 Larson, B. C., 5.3
 Lartigue, C., 4.4.2
 Laue, M. von, 2.1, 2.2
 Lauer, R., 4.2.2, 5.3
 Laugier, J., 3.4
 Laurie, V. W., 9.5, 9.6
 Laves, F., 9.1
 Lawrence, J. L., 2.7
 Lea, K., 4.2.1
 Lea, K. R., 4.2.6
 Leapman, R. D., 4.2.3, 4.3.4
 Lebech, B., 2.5.2, 4.3.7, 8.8
 Leber, M. L., 4.3.7
 Leboucher, P., 7.1.6
 Lebugle, A., 4.2.2
 Leciejewicz, J., 2.5.2
 Leduc, M., 4.4.2
 Lee, B., 6.3
 Lee, J. S., 4.3.3
 Lee, P., 4.2.4, 4.2.6
 Lee, P. A., 4.1, 4.2.3
 Lefaucheux, F., 3.1
 LeGalley, D. P., 2.3
 Legrand, E., 4.4.2
 Lehmann, A., 5.3
 Lehmann, M. S., 2.3, 3.4, 7.1.3
 Lehmfpuhl, G., 4.3.7, 4.3.8, 8.8
 Leifer, K., 4.4.2
 Leising, G., 4.3.4
 Lele, S., 9.2.1
 Lemonnier, M., 2.2, 7.1.6
 Lengeler, B., 4.2.3, 4.2.6
 Lenglet, M., 4.2.3
 Leon, R., 4.2.5
 Leonardsen, E., 9.2.2
 Leopold, H., 2.6.1
 LePage, Y., 1.3, 5.4.1
 Le Peltier, F., 4.2.3
 Lerche, M., 5.3
 Lereboures, B., 4.2.3
 Leroux, J., 4.2.4
 Leszczyński, M., 3.4, 5.3
 Leung, P. C., 8.7
 Levi, A., 7.1.4
 Levine, I. L., 8.7
 Levine, M. R., 6.3
 Leviner, J. S., 4.2.4
 Levitt, M., 8.3
 Levy, H. A., 3.4, 5.3, 6.1.1, 8.3
 Lévy, P., 6.1.1
 Lewis, M. H., 3.5
 Lewis, O., 4.2.1
 Lewis, R., 7.1.6
 Lewis, S. J., 3.4
 Lewit-Bentley, A., 3.1
 Ley, L., 4.2.2
 Li, F. H., 4.3.8
 Li, J. Q., 4.3.8
 Li, Q., 4.2.1
 Li, Y., 7.1.6
 Liang, K. S., 2.3
 Liberman, D., 4.2.4, 4.2.6
 Liberman, D. A., 4.2.6
 Lichte, H., 4.3.8
 Lider, V. V., 5.3
 Lidin, S., 9.7
 Liebfafsky, H. A., 4.2.4
 Liesen, D., 4.2.2
 Lietzke, R., 2.6.2
 Lifchitz, E., 4.3.4
 Lifshitz, R., 9.8
 Lim, G., 2.3
 Lim, G. S., 5.2, 5.3
 Lima-de-Faria, J., 9.1
 Liminga, R., 5.3
 Lindau, I., 4.2.4, 7.4.4
 Lindegaard-Andersen, A., 2.5.1
 Lindemann, R., 2.3
 Linderstrom-Lang, K., 3.2
 Lindgren, I., 4.2.2
 Lindhard, J., 4.3.4
 Lindley, P., 3.4
 Lindley, P. F., 3.1, 3.2, 3.4
 Lindner, P., 2.6.2
 Lindner, T., 4.3.4
 Lindroth, E., 4.2.2
 Lindstrom, R. M., 4.4.2
 Lippman, R., 3.4
 Lipps, F. W., 7.4.3
 Lipscomb, W. N., 6.1.1
 Lipson, H., 2.2, 2.3, 5.2, 5.3,
 6.2, 9.8
 Lischka, K., 2.9
 Lisher, E. J., 4.4.5
 Lisoivan, V. I., 5.3
 Liss, K.-D., 4.4.2
 Litrenta, T., 4.4.2
 Liu, H., 7.1.6
 Liu, J. W., 4.3.3
 Liu, L., 4.3.8, 7.2
 Livesey, A. K., 8.2
 Livingood, J. J., 4.3.4
 Lloyd, K. H., 5.3
 Lobashov, V. M., 4.4.2
 Löchner, U., 3.4
 Loeb, A., 9.1
 Long, D. C., 7.1.6
 Long, N., 4.3.8
 Lonsdale, K., 2.2, 5.3, 6.2
 Lontie, R., 2.6.1
 Looijenga-Vos, A., 9.8
 Loopstra, B. O., 2.4.2
 Lorber, B., 3.1
 Lorenz, G., 3.4
 Lotsch, H., 4.2.6
 Lotz, B., 3.5
 Louér, D., 2.3, 5.2, 8.6
 Lourie, B., 2.2
 Lovas, F. J., 9.5, 9.6
 Love, G., 4.2.1
 Lovesey, S. W., 4.1, 6.1.2,
 7.4.3, 8.7
 Lovey, F. C., 4.3.8
 Low, B. W., 3.2
 Lowde, R. D., 2.5.2, 4.4.2, 6.4
 Lowe, B. M., 2.3
 Lowenthal, S., 7.1.6
 Lowitzsch, K., 2.3
 Lowrance, J. L., 7.1.6
 Lucas, W., 4.2.2, 5.3
 Lucht, M., 5.3
 Luft, J., 3.1
 Luft, J. R., 3.1
 Luger, P., 3.4, 5.3
 Łukaszewicz, K., 5.3
 Lukehart, C. M., 2.5.2
 Lum, G. K., 4.2.2
 Lumb, D. H., 7.1.6
 Lund, L., 4.2.1
 Luo, M., 3.4
 Lushchikov, V. I., 4.4.2
 Lutterotti, L., 5.2
 Lutts, A., 5.3
 Lutts, A. H., 5.3
 Lutz, H. D., 2.3
 Luzzati, V., 2.6.1, 2.6.2
 Lynch, D. F., 4.3.6.1, 4.3.8
 Lynch, F. J., 7.3
 Lynch, J., 4.2.3, 4.3.8
 Lynn, J. E., 4.4.4
 Lytle, F. W., 4.2.3, 4.3.4
 Lytzau, V. G., 5.3
 Ma, H., 4.3.4
 Ma, Y., 4.2.3, 4.3.7, 8.8
 Maaskamp, H. J., 7.1.6
 MacGillavry, C. H., 3.1, 4.2.4,
 4.3.1, 8.8
 Machado, W. G., 2.7
 Machin, K. J., 3.4
 Machin, P. A., 3.4
 Machlan, L. A., 5.3
 Mack, B., 2.4.2
 Mack, B. J., 4.4.2

AUTHOR INDEX

- Mack, M., 2.3, 5.2, 7.5
 Mackay, A. L., 1.4, 3.4, 6.2
 Mackay, K. J. H., 5.3
 Mackenzie, J. K., 6.1.1, 7.5
 Macrae, C. F., 9.7
 Madar, R., 4.4.2
 Madariaga, G., 9.8
 Madsen, I. C., 2.3
 Maeda, H., 4.2.3
 Maeder, D. L., 3.1
 Magerl, A., 4.4.2
 Magorrian, B. G., 2.7
 Maher, D., 4.2.3
 Maher, D. M., 4.3.4
 Mai, Z.-H., 2.7
 Maier-Leibnitz, H., 4.4.2
 Main, P., 5.3
 Mair, S. L., 4.2.6, 6.1.1
 Maistrelli, P., 5.2
 Majkrzak, C. F., 2.9, 4.4.2
 Makarova, I. P., 3.1
 Makepeace, A. P. W., 2.7
 Maki, A. G., 9.5, 9.6
 Maki, M., 5.3
 Makita, Y., 4.3.8
 Makovický, E., 9.2.2
 Makowski, I., 3.4
 Malgrange, C., 2.8, 7.3
 Malik, S. S., 2.9
 Malina, R. F., 7.1.6
 Malinowski, A., 2.6.2
 Malinowski, M., 3.4, 5.3
 Mallett, J. H., 4.2.3, 4.2.4
 Malmros, G., 2.3, 8.6
 Malzfeldt, W., 4.2.6
 Mamy, J., 4.3.5
 Mana, G., 4.2.2
 Mann, J. B., 4.2.4, 4.3.1, 4.3.3, 6.1.1, 7.4.3
 Mannami, M., 4.3.8
 Manne, R., 4.2.1
 Manninen, S., 7.4.3
 Manoubi, T., 4.3.4
 Mantler, M., 5.2
 Manzke, R., 4.3.4
 Mao, H. K., 2.5.1
 Marchant, J. C. J., 7.2
 Marcus, M., 4.2.3
 Mardin, K. V., 6.1.1
 Mardix, S., 2.7
 Maréchal, J., 4.4.2
 Marezio, M., 3.1
 Marks, L., 4.3.8
 Marmeggi, J. C., 2.5.2
 Marr, G. V., 4.2.1
 Marsh, D. J., 3.4
 Marsh, P., 5.3
 Marsh, R. E., 5.3, 8.3
 Marshall, R. C., 9.2.1
 Marshall, W., 4.1, 8.7
 Martens, G., 4.2.3
 Mårtensson, N., 4.2.2
 Marthinsen, K., 4.3.7, 8.8
 Martin, C., 7.1.6
 Martinez-Carrera, S., 10
 Martini, M., 4.2.3
 Maruani, J., 8.7
 Maruyama, E., 7.1.6
 Maruyama, H., 2.7, 7.1.6, 7.1.7
 Maruyama, X. K., 4.2.1
 Marvin, D. A., 2.6.1
- Marx, D., 4.4.2
 Marxreiter, J., 3.4
 Marzolf, J. G., 4.2.2, 5.3
 Masaki, N., 2.8
 Masciocchi, N., 2.3, 8.6
 Maslen, E. N., 4.2.6, 6.1.1, 6.3
 Maslen, V. M., 4.3.4
 Mason, B., 3.2
 Mason, I. M., 7.1.6
 Massa, L., 8.7
 Massalski, T. B., 2.3, 4.3.5
 Massey, H. S. W., 4.3.3, 4.3.4
 Masuda, K., 4.2.1
 Materlik, G., 2.2, 2.7, 4.2.3, 4.2.6
 Mateu, L., 2.6.2
 Mathews, F. S., 3.4, 6.3
 Mathias, H. G., 3.4
 Mathieson, A. McL., 7.4.4
 Matsuhata, H., 4.3.7, 8.8
 Matsui, J., 2.7, 7.1.7
 Matsumoto, T., 9.1
 Matsumura, S., 8.8
 Matsunaga, K., 5.3
 Matsushima, I., 7.1.6
 Matsushita, T., 2.2, 2.7, 4.2.3, 4.2.5, 7.1.8, 7.4.4
 Matsuura, U., 9.2.2
 Matthewman, J. C., 8.6
 Matthews, B. W., 3.1, 3.2, 3.4
 Matthews, D., 2.2
 Matthews, G. D., 4.2.2
 Matzfeld, W., 4.2.3
 Mauer, F. A., 5.2, 5.3
 Maurice, J. L., 4.3.4
 Mawhorter, R. J., 4.3.3
 Max, N., 3.4
 May, C., 4.4.2
 May, R. P., 2.6.2
 May, W., 2.5.1
 Mayer, J., 4.3.7, 8.8
 Mayer, J. W., 4.1
 Mayers, D. F., 4.3.4
 Mazzarella, L., 3.1
 McCallum, B., 4.3.8
 McClelland, J. J., 4.3.3
 McConnell, C. H., 3.5
 McConnell, J. D. C., 9.8
 McCourt, M. P., 4.3.8
 McCrory, L. R., 4.2.1
 McCusker, L., 2.3, 8.6
 McDermott, G., 3.1
 McKeever, B., 3.4
 McKenney, A., 8.1
 McKie, C., 2.2
 McKie, D., 2.2
 McKinstry, H. A., 3.4
 McLarnan, T. J., 9.2.2
 McLaughlin, P. J., 3.4
 McLean, A. D., 4.3.3, 6.1.1
 McLean, R. S., 4.3.3
 McMahon, M., 4.2.5
 McMahon, M. I., 2.3, 2.5.1
 McMann, R. H., 7.1.7
 McMaster, R. C., 7.1.7
 McMaster, W. H., 4.2.3, 4.2.4
 McMeeking, R., 2.3
 McMullan, D., 4.3.4
 McMullan, R. K., 6.4
 McMurdie, H. F., 3.4
 McNeely, J. B., 5.3
- McNeill, K. M., 7.1.6
 McPherson, A., 3.1, 3.4
 McSweeney, S., 2.2
 Meardon, B. H., 4.4.2
 Medarde, M., 4.4.2
 Mees, C. E. K., 7.1.1
 Megaw, H. D., 5.3
 Mei, R., 4.2.3
 Meier, B. H., 5.5
 Meier, F., 2.7
 Meier, J., 4.4.4
 Meier, P. F., 4.1
 Meieran, E. S., 2.7
 Meijer, G., 9.2.2
 Meisheng, H., 4.3.8
 Meister, H., 4.4.2
 Melgaard, D. K., 2.4.1
 Melkanov, M. A., 4.3.3
 Melle, W., 5.3
 Mellema, J. E., 2.6.2
 Mellini, M., 9.2.2
 Melmore, S., 9.1
 Mendelsohn, L. B., 4.3.3, 7.4.3
 Mendelsohn, M. J., 5.3
 Menke, H., 2.6.1
 Menotti, A. H., 4.4.2
 Menter, J. W., 4.3.8
 Menzel, M., 7.2
 Meriel, P., 2.6.2, 9.8
 Mérign, J., 4.3.5
 Merisalo, M., 2.3, 6.1.1, 7.4.2
 Merlini, A. E., 5.3
 Merlini, S., 9.2.2
 Merritt, E. A., 7.1.6
 Merritt, F. C., 7.3
 Merwin, H. E., 3.3
 Merz, K. M., 9.2.1
 Merzbacher, E., 2.9
 Mesquita, A. H. G. de, 9.2.1
 Messerschmidt, A., 3.4, 7.1.6
 Metcalf, P., 7.1.6
 Metchnik, V., 4.2.1
 Metherell, A. J. F., 4.3.4
 Metoki, N., 2.9
 Metzger, T. H., 4.3.7, 8.8
 Meuth, H., 4.2.3
 Meyer, A. J., 5.3
 Meyer, C. E., 4.3.7
 Meyer, G., 2.4.1
 Meyer, H., 4.3.3
 Meyer-Ilse, W., 7.1.6
 Meyrowitz, R., 3.2, 3.3
 Meysner, L., 5.3
 Mezei, F., 4.4.2
 Mezey, P. G., 9.7
 Michalowicz, A., 2.8
 Midgley, H. G., 3.2
 Midgley, P. A., 4.3.7, 8.8
 Mighell, A. D., 2.4.1, 5.2, 9.7
 Mihami, K., 2.4.1
 Mikhailyuk, I. P., 5.3
 Mikhachenko, V. P., 5.3
 Mikke, K., 2.5.2
 Mikol, V., 3.1
 Milch, J. R., 7.1.6
 Mildner, D. F. R., 4.4.2, 7.3
 Miles, M. J., 2.6.1
 Milledge, H. J., 4.2.4, 5.3
 Miller, A., 2.6.2
 Miller, B., 4.3.3
 Miller, B. R., 4.3.3
- Miller, K. J., 8.7
 Miller, P. H., 4.4.2
 Millhouse, A. H., 7.4.3
 Million, G., 7.1.6
 Mills, D. L., 4.3.4
 Milne, A. D., 2.7
 Minakawa, N., 2.8
 Minato, I., 2.3, 3.4, 7.1.3
 Miner, B. A., 4.3.4
 Mingos, D. M. P., 2.3
 Minkowski, M., 9.1
 Misemer, D. K., 4.2.3
 Mises, R. von, 6.1.1
 Misselwitz, R., 2.6.1
 Mitchell, E. M., 9.7
 Mitchell, J. P., 7.1.7
 Mitchell, P. W., 4.4.3
 Mitchell, R. S., 9.2.1
 Mitra, G. B., 5.2
 Mitsunaga, T., 4.2.3
 Mittelbach, P., 2.6.1
 Mittemeijer, E. J., 2.3
 Miyahara, J., 7.1.6, 7.1.8, 7.2
 Miyake, S., 9.2.1
 Miyamoto, M., 9.2.2
 Miyata, T., 3.4
 Miyoshi, A., 2.7
 Mizusaki, T., 4.3.7
 Mizutani, I., 5.3
 Mochiki, K., 7.1.6
 Modrzejewski, A., 5.3
 Moelo, Y., 9.2.2
 Moews, P. C., 3.4
 Moffat, K., 2.2, 3.4
 Mogami, K., 9.2.2
 Mohr, P. J., 4.2.2, 5.3
 Moliterni, A. G., 8.6
 Möllenstedt, G., 4.3.8
 Monaco, H. L., 3.1
 Montenegro, E. C., 4.2.4
 Moodie, A. F., 4.3.1, 4.3.6.1, 4.3.8
 Moody, P. C. E., 3.4
 Mook, H. A., 4.4.2, 8.7
 Moon, K. J., 2.7
 Mooney, P. E., 4.3.7, 4.3.8
 Mooney, T., 4.2.2
 Mooney, T. M., 4.2.2
 Moore, J. K., 7.1.7
 Moore, L. J., 5.3
 Moore, M., 2.7
 Moore, P. B., 2.6.1, 2.6.2
 Moran, M. J., 4.2.1
 Moras, D., 3.4
 Morawe, C., 2.9
 Morchan, V. D., 7.1.6
 Moreno, A., 3.1
 Moret, R., 3.4
 Moretto, R., 3.4
 Morgan, B. L., 7.1.6
 Morgan, C. B., 7.3
 Morgan, D. V., 7.1.6
 Morgenroth, W., 4.2.6
 Mori, H., 9.2.2
 Mori, N., 4.3.7, 4.3.8, 7.2
 Moriguchi, S., 7.2
 Morikawa, K., 4.3.7
 Moring-Claesson, O., 2.6.1
 Morosin, B., 3.4
 Morris, I. L., 9.1
 Morris, M. C., 2.3, 3.4

AUTHOR INDEX

- Morris, P. L., 3.5
 Morris, R. E., 2.3
 Morris, V. J., 2.6.1
 Morris, W. G., 5.3
 Morrison, G. R., 7.2
 Morse, P. M., 4.3.3
 Mort, K., 4.2.3
 Mortensen, K., 2.6.2
 Mortier, W. J., 2.3
 Mory, C., 4.3.4
 Moss, G., 8.7
 Mosteller, M., 8.2
 Motherwell, W. D. S., 9.5, 9.6
 Motohashi, H., 2.8
 Mott, N. F., 4.3.4
 Mott, N. I., 4.3.3
 Moudy, L. A., 5.3
 Moulai, J., 7.1.6
 Mountain, R. W., 7.1.6
 Mountfield, M. J., 3.5
 Mourou, X., 4.2.1
 Moy, J.-P., 7.1.6
 Moyer, N. E., 5.3
 Mücklich, F., 4.4.2
 Mughabghab, S. F., 4.4.4
 Mugnier, J., 3.5
 Müller, A., 4.2.1
 Muller, J., 3.4
 Müller, J. E., 4.2.3, 4.3.4
 Müller, J. J., 2.6.1
 Müller, K., 2.6.1
 Müller, U., 9.2.2
 Müller, W., 7.1.2
 Müller-Heinzerling, T., 4.3.4
 Munshi, S. K., 3.4
 Muralt, P., 9.8
 Muramatsu, T., 4.3.3
 Murata, T., 4.2.3
 Murray, W., 8.3
 Murray-Rust, P., 9.6
 Murshudov, G. N., 3.4
 Mursic, Z., 4.4.2
 Murthy, M. R. N., 3.4
 Musil, F. J., 5.2, 5.3
 Mustre de Leon, J., 4.2.3
 Myklebust, R. L., 7.1.4
 Myles, D., 3.4
 Naday, I., 7.1.6, 7.3
 Naday, Y., 4.3.4
 Nagakura, S., 4.3.8
 Nagel, D. J., 4.2.1
 Naiki, T., 4.3.8
 Najmudin, S., 3.4
 Nakagawa, A., 7.1.8
 Nakajima, K., 5.3
 Nakajima, T., 5.2
 Nakamura, T., 5.3
 Nakamura, Y., 4.3.8
 Nakano, Y., 4.2.5, 6.3
 Nakayama, K., 2.7, 4.2.2
 Nanni, L. F., 5.3
 Nannichi, Y., 5.3
 Napier, J. G., 4.3.7
 Narayana, S. V. L., 3.4
 Nash, S., 8.1
 Nastasi, M., 2.9
 Nathans, R., 4.4.2, 4.4.3, 6.1.2
 Natoli, C. R., 4.2.3
 Naukkarinen, K., 2.7
 Nave, C., 2.6.1, 3.4
 Navrotsky, A., 3.4
 Nazarenko, V. A., 4.4.2
 Necker, G., 8.8
 Neder, R. B., 3.4
 Neilsen, C., 7.1.6
 Nelder, J. A., 9.7
 Nellist, P., 4.3.8
 Nelmes, R. J., 2.3, 2.5.1
 Nelms, A. T., 4.2.6
 Nelson, J. B., 5.2
 Nemiroff, M., 5.3
 Nesper, R., 9.1
 Nesterova, Ya. M., 9.2.2
 Neubüser, J., 1.4, 9.8
 Neuling, H. W., 2.5.1
 Nevot, L., 2.9
 Newbury, D. E., 7.1.4
 Newkirk, J. B., 2.7
 Newman, B. A., 5.3
 Newsam, J. M., 2.3
 Newville, M., 4.2.3
 Ng, E. W., 4.3.3
 Nichols, M. C., 2.3
 Nicholson, J. R. S., 2.7
 Nicholson, R. B., 3.5, 4.3.6.2,
 4.3.8, 5.4.1
 Nicholson, W. L., 7.5, 8.2, 8.4,
 8.5
 Nicol, J. M., 2.3
 Niculescu, V., 4.4.2
 Nielsen, C., 2.2, 3.4
 Nielsen, M., 2.3, 4.4.3, 7.1.3
 Nielson, C., 7.1.6
 Nielson, M., 4.4.3
 Nieman, H. F., 3.4
 Niemann, W., 4.2.3, 4.2.6
 Nierhaus, K. H., 2.6.2
 Niggli, P., 9.1
 Niimura, N., 2.5.1
 Niinikoski, T. O., 2.6.2
 Niklewski, T., 5.3
 Nikolin, B. I., 9.2.2
 Ninio, J., 2.6.1
 Nishina, Y., 7.4.3
 Nishiyama, Z., 9.2.1
 Nissenbaum, J., 7.1.4
 Nittono, O., 2.7
 Nixon, W. C., 4.2.1
 Nomura, K., 9.2.2
 Nomura, M., 4.2.3
 Nonaka, Y., 7.1.6
 Nonoyama, M., 5.4.2
 Nordfors, B., 4.2.3
 Norman, D., 4.2.3
 Normand, J.-M., 6.1.1
 North, A. C. T., 3.4, 6.3
 Northwood, D. O., 9.2.2
 Norton, T. J., 7.1.6
 Nothnagel, A., 2.6.1
 Novák, C., 9.2.2
 Nowacki, W., 9.1, 9.7
 Nowotny, V., 2.6.2
 Nugent, K. A., 4.2.5
 Numerov, B. V., 4.3.3
 Nunes, A. C., 4.4.2
 Nunez, V., 2.9, 4.4.2
 Nurmela, M., 2.3, 8.6
 Nyholm, R., 4.2.2
 Oba, K., 2.7, 7.1.6
 Obaidur, R. M., 5.3
 Obashi, M., 4.2.3
 Oberthür, R. C., 2.6.1, 2.6.2
 O'Connor, B., 8.6
 Ogawa, T., 4.2.6
 Ogilvie, R. E., 2.3, 5.3
 Oguso, C., 7.1.6
 Ohama, N., 5.3
 O'Hara, S., 2.7
 Ohkawa, T., 4.2.6
 Ohlendorf, D. H., 7.1.6
 Ohlidal, I., 2.9
 Ohshima, K.-I., 3.4
 Ohta, T., 4.2.3
 Ohtaka, K., 4.2.4
 Ohtsuki, Y. H., 4.2.4
 Oikawa, T., 4.3.7, 4.3.8, 7.2
 Okada, Y., 5.1, 5.3
 Okamoto, S., 2.9
 Okamura, Y., 7.1.6
 Okazaki, A., 3.4, 5.2, 5.3
 O'Keefe, M. A., 4.3.1, 4.3.2,
 4.3.8, 6.1.1
 O'Keeffe, M., 9.1
 Oki, K., 8.8
 O'Mara, D., 7.1.6
 Okorokov, A. I., 4.4.2
 Okude, S., 7.1.6
 Okuno, H., 7.3
 Oldfield, T. J., 3.1
 Olejnik, S., 5.3
 Olekhovich, A. I., 6.4
 Olekhovich, N. M., 6.4
 Oliver, J. H., 6.3
 Olkha, G. S., 7.5
 Olsen, A., 4.3.7, 4.3.8, 5.4.2
 Olsen, J. S., 2.5.1, 5.2, 5.3
 Olthoff-Münter, K., 2.7
 Omote, K., 2.3
 Onitsuka, H., 5.3
 Oosterkamp, P. W. J.,
 Oosterkamp, W. J., 4.2.1
 Op de Beeck, M., 4.3.8
 Opechowski, W., 1.4, 9.8
 Oppenheimer, I., 4.2.6
 Orchowski, A., 4.3.8
 Orlandi, P., 9.2.2
 Orpen, A. G., 9.5, 9.6
 Ortale, C., 7.1.6
 Ortiz, C., 2.3
 Oshima, K., 4.2.5
 Ostapovich, M. V., 5.3
 Ostrouchov, S., 8.1
 Ostrowski, G., 2.9
 Otten, E. W., 4.4.2
 Ottewanger, H., 7.1.6
 Otto, A., 4.3.4
 Otto, J. W., 2.5.1
 Øverbø, I., 4.2.3, 4.2.4
 Ovitt, T. W., 7.1.6
 Oyanagi, H., 4.2.3, 4.2.5
 Ozawa, S., 4.3.8
 Ozawa, T., 9.2.2
 Paakkari, T., 7.4.3
 Pabst, A., 9.2.2
 Pace, S., 5.3
 Paciorek, W. A., 7.5, 9.8
 Padawer, G. E., 5.3
 Padmaya, N., 9.7
 Pahl, R., 4.2.5
 Palache, Ch., 9.8
 Palenzona, A., 9.2.2
 Palmer, R. A., 3.1
 Palmer, S. B., 2.8
 Panchenko, J. M., 5.2
 Panchenko, Yu. M., 7.5
 Pandey, D., 9.2.1
 Pang, G., 5.3
 Pangborn, W. A., 3.1
 Pannhorst, V., 2.4.1
 Panson, A. Y., 4.3.4
 Pantos, E., 4.2.3
 Paoletti, A., 2.3, 2.4.2, 4.4.3, 8.6
 Paolini, F. R., 2.3
 Papatzacos, P., 4.2.3
 Papiz, M. Z., 2.3, 3.4
 Parak, F., 3.4
 Paretzkin, B., 3.4
 Parfait, J., 2.6.1
 Parfait, R., 2.6.2
 Parker, N. W., 4.3.4
 Parmon, V. S., 2.4.1
 Parratt, L. G., 2.3, 4.2.2, 4.2.3
 Parrish, W., 2.3, 2.5.1, 5.2, 5.3,
 7.1.2, 7.1.3, 7.1.4, 7.5, 8.6
 Parsons, D. F., 4.1
 Parthé, E., 2.3
 Pasemann, M., 4.3.8
 Pasero, M., 9.2.2
 Pashley, D. W., 3.5, 4.3.6.2,
 4.3.8, 5.4.1
 Passell, L., 4.4.2
 Patel, N. B., 5.3
 Patel, S., 3.1
 Paterson, M. S., 9.2.1
 Patt, B. E., 7.1.6
 Patterson, A. L., 9.2.1, 9.7
 Pattison, P., 7.4.3
 Pätzold, H., 4.3.7
 Paul, R. L., 4.4.2
 Pauling, L., 9.2.2, 9.3
 Paulus, M., 3.5
 Pavlishin, V. I., 9.2.2
 Pavlov, M. Yu., 2.6.2
 Pawley, G. S., 2.3, 5.2, 6.1.1,
 6.3, 8.6, 8.7
 Peacock, M., 9.8
 Pearce-Percy, H. T., 4.3.4
 Pearl, L. H., 3.1
 Pearlman, S., 2.3
 Pearson, G. L., 5.3
 Pearson, W. B., 9.3
 Pease, D. M., 4.2.3
 Pedersen, J. S., 2.6.2, 2.9
 Peele, A. G., 4.2.5
 Peerdeman, A. F., 4.2.6
 Peerdeman, F., 5.2
 Peierls, R. E., 4.2.6
 Peiser, H. S., 2.3, 5.1
 Peisert, A., 7.1.6
 Peisl, J., 7.4.2
 Peixoto, E. M. A., 4.3.3
 Peltonen, H., 6.1.1
 Pendry, J. B., 4.2.3, 4.3.4,
 4.3.6.2
 Penfold, J., 2.6.2, 2.9, 4.4.2
 Peng, L.-M., 4.3.1, 4.3.2, 8.8
 Pennartz, P. U., 3.4
 Penner-Hahn, J. E., 4.2.3, 7.1.5
 Penneycook, S. J., 3.5
 Pennock, G. M., 3.5
 Pennycook, S. J., 4.3.8

AUTHOR INDEX

- Perchiazzi, N., 9.2.2
 Perez, J. P., 4.3.4
 Perez-Mato, J. M., 9.8
 Perez-Mendez, V., 2.2
 Perfettii, P., 4.2.3
 Perlman, M. L., 4.2.3
 Pernot, P., 7.1.6
 Perrier de la Bathie, R., 2.8,
 4.4.2
 Perrin, F., 6.1.1
 Perry, J. A., 9.1
 Persson, E., 4.2.6
 Persson, H., 4.2.2
 Perutz, M. F., 2.6.2
 Peshekhonov, V. D., 7.1.6
 Pesonen, A., 2.3
 Pessen, H., 2.6.1
 Peterson, R. C., 3.4
 Petiau, J., 4.2.3, 4.3.4
 Petit, M., 7.1.6
 Petri, E., 4.3.4
 Petricek, V., 9.2.2, 9.8
 Petroff, J. F., 2.7, 2.8
 Petrova, S. N., 9.2.2
 Petsko, G. A., 3.4
 Pettersen, R. C., 9.5, 9.6
 Petzow, G., 4.4.2
 Pfeiffer, H. G., 4.2.4
 Pfister, J. C., 5.3
 Pflüger, J., 4.3.4
 Pflugrath, J., 3.4
 Pflugrath, J. W., 7.1.6
 Phan, T., 9.8
 Phelps, A. W., 9.2.2
 Philipp, H. R., 4.3.4
 Philips, J. C., 4.2.6
 Phillips, D. C., 2.2, 3.4, 6.3
 Phillips, F. C., 3.1
 Phillips, G. N. Jr., 3.4
 Phillips, W. C., 2.3, 4.2.1, 7.1.6
 Phizackerley, R. P., 7.1.6
 Photen, M. L., 7.1.7
 Piaget, C., 7.1.6
 Pick, M. A., 5.3
 Pickart, S. J., 4.4.2
 Pickford, M. G., 3.4
 Picot, D., 3.1
 Picraux, S. T., 4.1
 Piermarini, G. J., 5.3
 Pierron, E. D., 5.3
 Piestrup, M. A., 4.2.1
 Pietraszko, A., 5.3
 Pihl, C. F., 5.3
 Pike, E. R., 2.3, 5.2
 Piltz, R. O., 2.3
 Pilz, I., 2.6.1
 Pimentel, C. A., 5.3
 Pincus, C. I., 4.2.1
 Pinot, M., 2.6.2
 Pinsker, Z. G., 2.4.1, 2.7, 4.3.5,
 5.3
 Pirenne, M. H., 4.2.4
 Pirouz, P., 4.3.8
 Plançon, A., 4.3.5
 Platzman, P. M., 7.4.3
 Plechaty, E. F., 4.2.4
 Plies, E., 4.3.4
 Plotnikov, V. P., 4.3.5
 Plotz, W., 2.9
 Plummer, E. W., 4.1
 Podlasin, S., 3.4, 5.3
 Podolsky, R. J., 7.1.6
 Pofahl, E., 5.3
 Polack, F., 7.1.6
 Polcarová, M., 5.3
 Polidori, G., 8.6
 Polizzi, S., 2.3
 Pollehn, H. K., 7.1.6
 Polyak, M. I., 5.3
 Pommerenig, D. H., 7.1.6
 Pongratz, P., 7.4.2
 Ponomarev, I. Yu., 4.4.2
 Poole, M. W., 4.2.1
 Popa, N. C., 7.4.2, 8.6
 Popov, A. N., 7.1.6
 Popović, S., 5.2, 5.3
 Porat, Z., 3.5
 Porod, G., 2.6.1, 2.6.2
 Porsev, G. D., 4.4.2
 Porteus, I. O., 4.2.3
 Posselt, D., 2.6.2
 Post, B., 5.3
 Post, J. E., 2.3
 Potts, H. R., 5.3
 Poulos, T. L., 7.1.6
 Pound, A., 3.2
 Pouxe, J., 7.1.3, 7.1.6
 Powell, B. M., 3.4
 Powell, C. J., 4.2.2, 4.3.4
 Powell, H. R., 2.3
 Powers, L. S., 4.2.3
 Prager, P. R., 9.2.1
 Prandl, W., 3.4
 Prasad, B., 9.2.1
 Prasad, L., 9.2.1
 Pratapa, S., 8.6
 Pratt, R. H., 4.2.4, 4.2.6, 7.4.3
 Press, W., 6.1.1
 Preston, A. R., 8.8
 Preston, G. D., 9.8
 Preston, K. D., 2.3
 Prewitt, C. T., 2.3, 3.4
 Price, P. F., 4.2.6
 Price, W. J., 7.1.6
 Prince, E., 2.3, 4.2.2, 5.1, 5.3,
 7.5, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6
 Prince, F. C. de, 5.3
 Pring, A., 9.2.2
 Prins, J. A., 2.6.1
 Probst, R., 4.2.2, 5.3
 Prout, C. K., 2.3
 Proviz, G. I., 7.1.6
 Provost, K., 3.1
 Przybylska, M., 3.1, 3.4
 Ptitsyn, O. B., 2.6.1
 Pulay, P., 4.3.3
 Pürschel, H. V., 2.6.1
 Pusey, M., 3.1
 Puxley, D. C., 3.4
 Pynn, R., 2.9, 4.4.2, 4.4.3
 Pyrros, N. P., 2.3
 Quayle, J. A., 2.7
 Queisser, H.-J., 2.7
 Rabe, P., 2.7, 4.2.3, 4.2.6
 Rabinovich, D., 2.2, 7.5
 Rabukhin, V. B., 3.2
 Rachinger, W. A., 2.3
 Rackham, G. M., 4.3.6.2, 5.4.2
 Radeka, V., 7.3
 Rademacher, H.-J., 4.2.2, 5.3
 Radi, G., 8.8
 Radoslovich, E. W., 9.2.2
 Rae, A. D., 8.3
 Rae, W. N., 3.2
 Raether, H., 4.3.4
 Raftery, J., 9.6
 Rai, R. S., 9.2.1
 Raia, C. A., 3.1
 Raiko, V. I., 4.2.1
 Raj, K., 4.4.2
 Ralph, R. L., 8.3
 Ramachandran, G. N., 2.7
 Ramakrishnan, V., 2.6.2
 Ramakumar, S., 9.7
 Ramaseshan, S., 4.2.6, 6.1.3
 Ramesh, R., 4.3.7
 Ramesh, T. G., 6.1.3
 Ramsay, D. A., 9.5, 9.6
 Ramsdell, L. S., 9.2.1
 Randall, K. H., 9.1
 Ranganath, G. S., 6.1.3
 Rao, C. N., 4.3.4
 Rao, Ch. P., 3.4
 Rao, S., 9.1
 Raoux, D., 7.1.6
 Rask, J. H., 4.3.4
 Rasmussen, B. F., 3.4
 Rasmussen, S. E., 3.4
 Rathie, P. N., 7.5
 Rau, W., 4.3.8
 Rau, W. D., 4.3.8, 7.2
 Rauch, H., 2.7, 4.4.2, 4.4.4
 Ravel, B., 4.2.3
 Ravn, H. L., 4.2.2
 Rayment, I., 3.4
 Raynal, J., 4.3.3
 Read, M. H., 2.3
 Read, W. T., 6.4
 Reck, G., 9.2.2
 Redinbo, M. R., 3.1
 Reed, M., 4.2.1
 Reed, R. E., 4.4.2
 Reed, S. J. B., 2.3, 4.2.1
 Reeke, G. N. J., 5.3
 Rees, A. L. G., 2.4.1
 Rees, B., 8.7
 Rees, D. C., 3.1
 Rehr, J. J., 4.2.3
 Reichard, T. E., 5.3
 Reider, M., 3.4
 Reifsnider, K., 2.7
 Reilly, J., 3.2
 Reim, G., 4.2.2, 5.3
 Reimer, L., 4.3.4, 7.2
 Reinecke, T., 9.2.2
 Reinhardt, A., 9.1
 Rem, P. C., 4.4.2
 Remaut, G., 3.5
 Remenyuk, P. I., 5.3
 Remington, S. J., 3.1
 Ren, G., 4.3.2
 Renault, A., 4.3.8
 Renda, G., 7.1.6
 Rendle, D. F., 2.3
 Rennekamp, R., 4.3.4
 Renninger, M., 2.3, 2.7, 5.3
 Resouche, E., 4.4.2
 Reverchon, F., 3.5
 Reynolds, G. T., 7.1.6
 Reynolds, R. A., 3.1
 Reynolds, R. C., 2.3
 Rez, D., 4.3.1, 4.3.2
 Rez, P., 4.3.1, 4.3.2, 4.3.4
 Rhan, H., 5.3
 Ribberfors, R., 7.4.3
 Ricci, F. P., 2.3, 2.4.2, 4.4.3,
 8.6
 Rice, S. B., 4.3.8
 Rice-Evans, P., 7.1.6
 Richard, J. C., 7.1.6
 Richards, F. M., 3.2, 3.4
 Richardson, J. W., 8.6
 Richardson, M. C., 4.2.1
 Richardson, M. C. M., 4.2.5
 Richter, D., 4.4.2
 Ricker, G. R., 7.1.6
 Ridou, C., 5.3
 Rieck, C. D., 4.2.2
 Rikel, C., 3.1
 Ries-Kautt, M., 3.1
 Rietveld, H. M., 2.3, 2.4.2, 5.2,
 8.2, 8.3, 8.6
 Rieubland, J. M., 2.6.2
 Rieubland, M., 2.6.2
 Riggs, P. J., 4.2.3
 Riglet, P., 2.7
 Rigoult, J., 6.3
 Rijlart, A., 2.6.2
 Rijllart, A., 2.6.2
 Riley, D. P., 5.2
 Rindby, A., 4.2.5
 Ringe, D., 3.4
 Ringe-Ponzi, D., 3.4
 Rink, W. J., 3.4
 Rinn, H. W., 2.3
 Ripp, R., 3.4
 Riquet, J. P., 3.4
 Risler, J. L., 3.4
 Riste, T., 4.4.2
 Ritchie, R. H., 4.3.4
 Ritland, H. N., 2.6.1
 Ritsko, J. J., 4.3.4
 Ritter, R., 4.4.2
 Rizkallah, P. J., 3.1
 Robert, M. C., 3.1
 Roberts, K. J., 2.7, 3.4
 Roberts, L. D., 4.4.2
 Roberts, P.-H., 6.1.1
 Robertson, B. E., 5.3
 Robin, J., 4.2.1
 Robinson, R. A., 4.4.3
 Roche, C. T., 7.3
 Rode, A. V., 4.2.5
 Rodeau, J.-L., 3.1
 Rodenburg, J., 4.3.8
 Rodgers, J. R., 9.3, 9.5, 9.6, 9.7
 Rodricks, B., 7.1.6
 Rodrigues, A. R. D., 2.3, 2.7,
 4.2.5
 Rodriguez, S., 5.3
 Roe, A. L., 7.1.5
 Roe, S. M., 3.4
 Roehrig, H., 7.1.6
 Roetti, C., 4.4.5, 6.1.1, 6.1.2
 Rogers, D. W., 3.4
 Rogers, J. E., 8.1
 Rogerson, I. F., 5.2
 Rohe, D., 4.4.2
 Rohrer, H., 4.3.8
 Rohrlich, F., 7.4.3
 Rollett, J. S., 5.3
 Rømming, C., 4.3.7, 8.8

AUTHOR INDEX

- Rooksby, H. P., 2.3, 5.1
 Rooms, G., 4.4.2
 Roos, B., 6.1.1
 Roppert, J., 2.6.1
 Rose, A., 7.1.6, 7.1.7
 Rose, H., 4.3.4
 Rosier, D. J. de, 4.1
 Rosner, B., 5.3
 Ross, A. W., 4.3.3
 Ross, M., 9.2.2
 Ross, P. A., 2.3
 Rossbach, M., 4.4.2
 Rossi, F. A., 3.4
 Rossi, J., 7.1.7
 Rossi, J. P., 7.1.7
 Rossi, M., 3.1
 Rossmanith, E., 5.3
 Rossmann, M. G., 2.2, 3.4, 5.3
 Rossouw, C. J., 4.3.4
 Rotella, F. J., 2.5.2, 5.5
 Rouault, M., 4.3.3
 Roubeau, A., 2.6.2
 Roudaut, E., 2.4.2, 7.3
 Rourke, C. P., 6.3
 Rouse, K. D., 6.3, 7.4.2
 Rousseau, M., 5.3
 Rousseaux, F., 2.2, 4.3.5
 Roux, M., 4.3.3
 Rowe, J. M., 4.4.2, 4.4.3
 Rowlands, P. C., 5.3
 Roy, S. C., 4.2.4, 4.2.6
 Rozgonyi, G. A., 7.1.7
 Rozhanski, V. N., 4.3.8
 Rozhansky, V. H., 5.3
 Rozhansky, V. N., 5.3
 Rubin, H., 2.3
 Rubinstein, I., 3.5
 Ruble, J. R., 6.3
 Ruckpaul, K., 2.6.1
 Rudakov, L. I., 4.2.1
 Rudman, R., 3.4
 Rule, D. W., 4.2.1
 Rullhausen, P., 4.2.4, 4.2.6
 Rumpf, A., 2.7
 Runov, V. V., 4.4.2
 Ruoff, A. L., 2.5.1
 Rush, J. J., 8.3
 Russ, J. C., 7.1.4
 Russell, D. R., 9.6
 Russell, T. P., 2.9
 Rustichelli, F., 2.8, 4.4.2
 Rüter, H. D., 5.3
 Rzotkiewicz, S., 8.7
- Sabine, T. M., 6.4
 Sabino, E., 2.3, 5.2
 Sadanaga, R., 9.2.2
 Sadaoui, N., 3.1
 Sadler, D. M., 2.6.1
 Sagar, R. P., 4.3.3
 Sagerman, G., 3.4
 Sah, R. E., 4.3.4
 Saito, M., 4.2.3
 Saitoh, K., 7.2
 Sakabe, K., 6.3
 Sakabe, N., 2.2, 4.2.5, 6.3, 7.1.6, 7.1.8
 Sakai, H., 2.7, 7.1.6, 7.1.7
 Sakamaki, T., 3.4
 Sakashita, H., 5.3, 9.2.2
 Sakata, M., 7.4.2, 8.6
- Sakurai, H., 4.2.1
 Sakurai, K., 4.2.1
 Salcido, M. M., 7.1.6
 Saldin, D. K., 4.3.4, 8.8
 Salemme, F. R., 7.1.6
 Saloman, E. B., 4.2.3, 4.2.4
 Salomonson, S., 4.2.2
 Salva-Ghilarducci, A., 2.6.2
 Samotoin, N. D., 4.3.5
 Samsonov, G. V., 9.3
 Sander, B., 5.3
 Sandström, A. E., 5.2
 Sanford, P. W., 7.1.6
 Sankey, O. F., 4.3.4
 Sano, H., 4.2.4
 Santiard, J. C., 2.2, 7.1.6
 Santilli, V. J., 7.1.6
 Santoro, A., 6.3
 Sapirstein, J., 4.2.2
 Sareen, R. A., 7.1.6
 Sarikaya, M., 4.3.7
 Sarma, R., 3.4
 Sasaki, A., 4.2.3
 Sasaki, H., 4.3.3
 Sasvári, J., 5.3
 Sato, F., 2.7, 7.1.6, 7.1.7
 Sato, M., 3.4
 Sato, S., 4.2.6
 Sato-Sorensen, Y., 3.4
 Satow, Y., 7.1.6, 7.1.8
 Sauder, W. C., 4.2.2
 Sauer, H., 4.3.4
 Sauli, F., 2.2
 Saunders, M., 4.3.7, 8.8
 Sauvage, M., 2.7, 2.8
 Savage, H. F. J., 3.4
 Savinov, G. A., 7.1.6
 Savitzky, A., 2.3
 Sawada, M., 4.2.1, 4.2.3
 Sawada, T., 4.3.3
 Sawatsky, G. A., 4.3.4
 Saxton, W., 4.3.8
 Saxton, W. O., 4.3.8
 Sayers, D. E., 4.2.3, 4.3.4
 Sazaki, T., 4.3.4
 Sbitnev, V. I., 4.4.2
 Scarborough, G. A., 3.1
 Scardi, P., 5.2, 8.6
 Scarine, R. P., 9.7
 Schaefer, W., 7.3
 Schaeerp, O., 4.4.2
 Schäfer, L., 4.3.3
 Schalt, W., 4.4.2
 Schärfp, O., 2.6.2, 4.4.2
 Schattschneider, P., 4.3.4
 Schauer, P., 7.2
 Schaupp, D., 4.2.4, 4.2.6, 7.4.3
 Schearer, L. D., 4.4.2
 Schebetov, A. F., 4.4.2
 Scheckenhofer, H., 2.9
 Schedler, E., 4.4.2
 Schedrin, B. M., 2.6.1
 Scheer, J. W., 7.1.6
 Scheerer, B., 4.3.4
 Scheetz, B. E., 2.3
 Schefer, J., 4.4.2
 Scheinftein, M., 4.3.4
 Schellenberger, U., 5.3
 Schelten, J., 2.6.1, 2.6.2, 4.4.2, 7.3
 Schenk, M., 5.3
- Scheraga, H. A., 9.7
 Scheringer, C., 6.1.1
 Scherm, R., 2.8, 4.4.2
 Scherm, R. H., 4.4.2
 Scherrer, P., 2.3
 Scherzer, O., 4.3.8
 Schetelich, Ch., 5.3
 Schick, B., 3.1
 Schieber, M., 7.1.4
 Schikora, D., 5.3
 Schildkamp, W., 2.2
 Schiller, C., 3.4
 Schindler, D. G., 2.6.2
 Schink, H.-J., 2.6.2
 Schirber, J. E., 3.4
 Schirmer, A., 4.4.2
 Schiske, P., 4.3.8
 Schlenker, M., 2.8, 7.3
 Schlenhoff, J. B., 3.4
 Schlesier, B., 3.1
 Schmalle, H. W., 9.2.2
 Schmatz, W., 4.4.2
 Schmetzter, K., 2.3
 Schmider, H., 4.3.3
 Schmidt, H., 5.3
 Schmidt, K., 2.6.2
 Schmidt, L., 4.2.1
 Schmidt, V. V., 4.2.3
 Schnabel, R. B., 8.1
 Schnatterly, S. E., 4.3.4
 Schneider, D. K., 2.6.2
 Schneider, G., 9.2.2
 Schneider, J., 3.4, 5.3
 Schneider, J. R., 2.5.2, 4.1, 7.4.3
 Schnerring, H. G. von, 9.1
 Schnopper, H. W., 4.2.3
 Schoenborn, B. P., 2.6.2, 4.4.2, 6.1.3
 Schomacher, V., 4.3.3
 Schomaker, V., 4.3.3, 8.3
 Schoonover, R. M., 5.3
 Schrauber, H., 2.6.1, 9.2.2
 Schreiner, W., 2.3, 5.2
 Schreiner, W. N., 2.3, 5.2
 Schrey, F., 5.3
 Schreyer, A., 2.9
 Schröder, B., 4.3.4
 Schröder, W., 2.2, 2.7
 Schroeder, L. W., 6.3
 Schubert, P., 3.4
 Schultz, A. J., 2.5.2, 7.3
 Schultz, H., 2.3
 Schulz, H., 3.4, 5.3, 6.1.1, 7.4.2, 9.2.2
 Schulz, L. G., 2.7
 Schulze, G. E. R., 3.2, 5.3
 Schulze, H., 2.6.2
 Schumacher, M., 4.2.4, 4.2.6, 7.4.3
 Schurz, J., 2.6.1
 Schuster, M., 4.2.6
 Schutt, C. E., 2.2
 Schwager, P., 3.4, 6.3
 Schwahn, D., 2.6.2
 Schwartz, L. S., 2.3
 Schwartzzenberger, D. R., 5.3
 Schwarz, H. E., 7.1.6
 Schwarz, W., 9.2.2
 Schwarzenbach, D., 4.2.2, 5.3, 8.1, 9.3
 Schweig, A., 4.3.3
- Schweizer, J., 4.4.2, 8.7
 Schwendemann, R. H., 9.5, 9.6
 Schweppe, J., 4.2.2
 Schweppe, J. E., 4.2.2
 Schwinger, J., 4.2.1
 Schwitz, W., 4.2.2
 Schwutke, G. H., 2.7, 5.3
 Scofield, J., 4.2.6
 Scofield, J. H., 4.2.3, 4.2.4
 Scott, C. P., 7.2
 Scott, H. G., 8.6
 Scott, V. D., 4.2.1
 Scuderi, J., 3.4
 Sears, V. F., 2.9, 4.2.3, 4.4.2, 4.4.4
 Seary, A. J., 4.2.3
 Sebastian, M. T., 9.2.1
 Sébilleau, F., 2.3
 Secrest, D., 6.3
 Sedlacek, P., 9.2.2
 Seibold, R. E., 2.3
 Seeds, W. E., 2.6.1
 Seegar, P. A., 4.4.4
 Seeger, A., 4.4.2
 Seeger, P. A., 7.1.6
 Seemann, H., 2.3
 Segall, R. L., 9.2.2
 Segmüller, A., 2.3, 5.3
 Seip, H. M., 4.3.3
 Seip, R., 4.3.3
 Seka, W., 4.2.1
 Seki, R., 4.2.2
 Sekiguchi, A., 7.1.6
 Sekiguchi, A. A., 7.1.6
 Self, P. G., 4.3.8
 Selsmark, B., 2.5.1
 Semiletov, S. A., 2.4.1
 Senemaud, C., 4.2.1, 4.2.2
 Senzaki, K., 4.2.3
 Serdyuk, I. N., 2.6.2
 Serebrov, A. P., 4.4.2
 Serughetti, J., 3.5
 Servidori, M., 5.3
 Sette, F., 4.3.4
 Sevely, J., 4.3.4
 Sevillano, E., 4.2.3
 Seyfried, P., 4.2.2, 5.3
 Seymann, E., 4.4.4
 Shaham, H., 3.4
 Sham, L. S., 4.2.6
 Shankland, K., 4.3.7, 8.6
 Shannon, C. E., 2.6.1
 Shapiro, F. L., 4.4.2
 Shapiro, S. M., 4.4.2
 Sharov, V. A., 4.4.2
 Shaw Stewart, P. D., 3.1
 Shaw, A., 3.1
 Shechtman, D., 9.8
 Shekhtman, V. Sh., 5.3
 Sheldon, J., 3.4
 Sheldrick, G. M., 5.3
 Shelud'ko, S. A., 5.3
 Shenoy, G. K., 4.1
 Shephard, G. C., 9.1
 Sherman, I. S., 4.3.4, 7.1.6
 Sherwood, J. N., 2.7, 2.8
 Sheu, E. Y., 2.6.1, 2.6.2
 Shibata, S., 4.3.3
 Shidara, K., 2.7, 7.1.6, 7.1.7
 Shields, W. R., 5.3
 Shiles, E., 4.3.4

AUTHOR INDEX

- Shimakura, H., 4.2.6
 Shimambukuro, R. L., 4.2.4, 4.2.6
 Shindo, D., 4.3.8
 Shinoda, G., 5.3
 Shiraiwa, T., 4.2.3
 Shiraiwa, Y., 4.2.1
 Shirane, G., 4.4.2, 4.4.3, 6.1.2
 Shirley, R., 8.6
 Shishiguchi, S., 2.3, 7.1.3
 Shmueli, U., 7.5
 Shmytko, I. M., 4.2.6, 5.3
 Shoemaker, D. P., 7.5, 8.4
 Shoji, T., 2.3
 Shore, J. E., 8.2
 Shortley, G. H., 8.7
 Shriner, A., 5.3
 Shubnikov, A. V., 9.1
 Shulakov, E. V., 4.2.6, 5.3
 Shull, C. G., 2.8, 6.1.2, 6.1.3
 Shulman, R. G., 4.2.3
 Shulman, S., 2.6.1
 Shuman, H., 4.3.4
 Shuvalov, B. N., 7.1.6
 Shvarts, D., 4.2.1
 Shvyd'ko, Yu. V., 5.3
 Sica, F., 3.1
 Siddons, D. P., 2.3, 2.7, 4.2.6
 Siddons, P., 4.2.6
 Sidorenko, O. V., 4.3.5, 9.2.2
 Sidorov, V. A., 7.1.6
 Sieber, J., 8.6
 Siegbahn, M., 4.2.1
 Siegbahn, P., 6.1.1
 Siegel, R. W., 4.1
 Siegert, H., 4.2.2, 5.3
 Siegmund, O. H. W., 7.1.6
 Siegmund, W., 4.2.5
 Siemensmeyer, K., 4.4.2
 Sievers, R., 9.4, 9.5, 9.6
 Silcox, J., 4.3.4
 Sillers, I.-Y., 2.6.2
 Sillou, D., 2.8
 Silzer, R. M., 4.2.1
 Simmons, R. O., 5.3
 Simms, R. A., 7.1.6
 Simon, J. P., 2.6.2
 Simons, A. L., 4.2.3
 Simpson, J. A., 4.3.4
 Simpson, K., 2.6.2
 Simpson, W. T., 6.1.1
 Sinclair, H. B., 5.2
 Sinfelt, J. H., 4.2.3
 Singh, G., 9.2.1
 Singh, K., 5.3
 Singh, S. R., 9.2.1
 Sinha, S. K., 2.9
 Sinogowitz, U., 9.1
 Sirianni, A. F., 2.3
 Sironi, A., 8.6
 Sirota, E. B., 2.9
 Sirota, M. I., 2.4.1
 Sivia, D. S., 8.6
 Skalicky, P., 7.4.2
 Skellam, J. G., 7.5
 Skilling, J., 8.2
 Skopik, D. M., 4.2.1
 Skowronek, M., 7.1.6
 Skupov, V. D., 5.3
 Skuratowski, I. Ya., 4.2.1
 Slack, G. A., 9.1
 Slade, J. J., 5.3
 Slade, J. J. Jr, 5.3
 Slater, J. C., 7.4.3
 Sleight, A. W., 2.3
 Sleight, J., 4.2.1
 Slingsby, S., 3.4
 Šljukić, M., 5.3
 Sloane, N. J. A., 9.1
 Sluis, P. van der, 3.1
 Smaalen, S. van, 9.2.2, 9.8
 Smakula, A., 5.3
 Smend, F., 4.2.4, 4.2.6, 7.4.3
 Smirnov, V. V., 4.3.8
 Smirnova, N. L., 9.1
 Smith, A. J., 9.7
 Smith, D., 4.3.3
 Smith, D. G. W., 2.3
 Smith, D. J., 3.5, 4.3.7, 4.3.8
 Smith, D. K., 2.3, 9.2.2
 Smith, D. T., 3.4
 Smith, D. Y., 4.2.6, 4.3.4
 Smith, G., 5.3, 7.1.6
 Smith, G. F. H., 9.8
 Smith, G. S., 2.3, 2.9
 Smith, H., 8.1, 8.4
 Smith, J. M., 9.7
 Smith, J. V., 9.2.2
 Smith, S. T., 2.3
 Smith, S. Y., 4.3.4
 Smith, T. B., 4.4.2
 Smith, V. H., 4.3.3
 Smith, V. H. Jr, 4.3.3, 6.1.1
 Smits, D. W., 5.2
 Snavely, M. K., 4.1
 Snell, E., 2.2
 Snigirev, A., 4.2.5
 Snigireva, I., 4.2.5
 Snyder, D., 4.2.1
 Snyder, R. L., 2.3
 Soares, D. A. W., 5.3
 Soboleva, S. V., 4.3.5, 9.2.2
 Söchtig, J., 4.4.2
 Soejima, Y., 3.4, 5.3
 Sofer, A., 8.1
 Soff, G., 4.2.2
 Soller, W., 2.3, 5.2
 Somiya, S., 2.3
 Somlyo, A. P., 4.3.4
 Sommers, H. S., 4.4.2
 Sonada, M., 7.1.6
 Sonneveld, E. J., 2.3, 5.2
 Sonoda, M., 7.1.8
 Sorenson, D., 8.1
 Sorenson, L. B., 4.2.3
 Sorenson, L. O., 4.2.6
 Soriano, T. M. B., 3.1
 Sorokin, N. D., 9.2.2
 Soures, J. M., 4.2.1
 Sowa, H., 9.1
 Spackman, M. A., 8.7
 Spangfort, M. D., 3.1
 Spargo, A. E. C., 4.3.7, 4.3.8
 Sparks, C. J., 5.2, 7.4.3
 Sparks, R. A., 2.3, 3.4
 Sparrow, T. G., 4.3.4
 Spear, W. E., 4.2.1
 Spehr, R., 4.3.4
 Speier, W., 4.3.4
 Spence, A. J., 4.3.8
 Spence, J. C. H., 4.3.4, 4.3.7, 4.3.8, 8.8
 Spencer, R. C., 5.2
 Spiegelman, C. H., 8.4, 8.5
 Spielberg, N., 2.3, 5.2, 7.5
 Spooner, F. J., 5.3
 Springer, T., 2.6.2, 4.4.2
 Sprong, G. J. M., 5.2
 Squire, G. D., 3.4
 Srinivasan, K., 2.5.2
 Stepien, J. A., 5.3
 Stepień-Damm, J., 5.3
 Stepień-Damm, J. A., 5.3
 Stalick, J. K., 2.3, 2.4.1, 5.1, 5.2
 Stalke, D., 3.4
 Stanglmeier, F., 4.2.6
 Stanley, H. B., 2.9
 Stanton, M., 7.1.6
 Stasiecki, P., 2.6.1
 Statile, J. L., 7.1.7
 Staub, U., 4.4.2
 Stearns, D. G., 4.2.6
 Stedman, R., 4.4.3
 Steeds, J. W., 4.3.6.2, 4.3.7, 5.4.2, 8.8
 Steele, H., 2.3
 Stegun, I. A., 6.1.1, 6.3, 7.5
 Steichele, E., 2.5.2, 4.4.2
 Steigemann, W., 3.4
 Steinberger, I. T., 9.2.1
 Steinberger, J., 4.4.2
 Steiner, M., 4.4.2
 Steiner, W., 7.4.2
 Steinhauser, K. A., 2.9
 Steinmeyer, P. A., 2.3
 Steinsvoll, O., 4.4.2, 4.4.3
 Stemple, N. R., 4.2.6
 Stephens, M. A., 6.1.1
 Stephens, P. W., 4.2.5, 8.6
 Stephenson, S. T., 4.2.1
 Stern, E. A., 4.2.1, 4.2.3, 4.3.4
 Stern, R. A., 7.1.6
 Steryl, A., 2.9
 Stetsko, Yu. P., 5.3
 Steurer, W., 9.8
 Stevels, A. L. N., 2.7
 Stevens, E. D., 7.4.2, 8.7
 Stevenson, A. W., 7.4.2
 Stevenson, M. L., 4.2.3
 Stewart, G. W., 8.1
 Stewart, R. F., 4.3.3, 6.1.1, 8.7
 Stibius-Jensen, M., 4.2.3, 4.2.6
 Stiefel, E., 8.3
 Stipech, S., 4.2.3
 Stirling, W. G., 4.4.2
 Stobbs, W. M., 4.3.8
 Stock, A. M., 3.4
 Stock, S. R., 4.2.3
 Stohr, J., 4.2.3, 4.3.4
 Stolevik, V., 4.3.3
 Storm, A. R., 4.2.3
 Storm, E., 4.2.4, 4.2.6
 Stott, A. M. B.,
 Stout, C. D., 3.1
 Stout, G. H., 2.2, 3.1, 3.4, 5.3
 Stout, J. H., 9.2.2
 Strack, R., 4.2.5
 Stragier, H., 4.2.3
 Strattonovich, R. L., 6.1.1
 Straumanis, M., 5.3
 Straumanis, M. E., 2.3, 5.3
 Strauss, M. G., 4.3.4, 7.1.6, 7.3
 Strauss, S., 7.4.3
 Strinskii, A. N., 4.2.1
 Strobel, P., 3.1
 Stroud, A. H., 6.3
 Stuart, A., 3.1, 3.3, 6.1.1
 Stuart, D., 6.3
 Stuart, D. I., 3.4
 Stubbings, S. J., 3.4
 Stuckey Kauffman, D., 5.3
 Stuesser, N., 4.4.2
 Stührmann, H., 4.2.1
 Stührmann, H. B., 2.6.1, 2.6.2
 Stümpel, J., 4.2.2
 Stümpel, J. W., 7.1.6
 Stura, E. A., 3.1
 Sturhahn, W., 5.3
 Sturkey, L., 2.4.1
 Sturm, K., 4.3.4
 Sturm, M., 4.2.6
 Su, L. S., 4.3.3
 Su, Z., 8.7
 Suck, D., 3.4
 Sudol, J., 7.3
 Suehiro, S., 7.1.6
 Sueeno, S., 3.4
 Suh, I.-H., 3.4
 Suh, J.-M., 3.4
 Sukharev, Y., 4.3.7
 Suller, V. P., 4.2.1
 Sullivan, J. D., 3.2
 Sumner, I., 7.1.6
 Suortti, P., 2.3, 4.2.1, 4.2.4, 4.2.6, 7.4.2, 7.4.4, 8.6
 Surin, B. P., 3.1
 Surkau, R., 4.4.2
 Suski, T., 3.4, 5.3
 Sussieck-Fornefeld, C., 2.3
 Sussini, J., 4.2.5
 Sutter, J., 5.3
 Sutton, L. E., 9.5, 9.6
 Suzuki, M., 9.2.2
 Suzuki, S., 2.7
 Suzuki, T., 4.3.8
 Suzuki, Y., 7.1.6
 Svensson, C., 5.3
 Svensson, L. A., 3.1
 Svergun, D. I., 2.6.1
 Swann, P. R., 3.5, 4.3.4
 Swanson, D. K., 3.4
 Swanson, H. E., 5.2, 5.3
 Swanton, D. J., 8.7
 Swapp, S. M., 3.4
 Sweet, R. M., 3.1, 7.1.6
 Swoboda, M., 4.3.7
 Swyt, C. R., 4.3.4
 Sygusch, J., 8.3
 Syromyatnikov, F. V., 3.2
 Szabó, P., 7.5
 Szarras, S., 2.5.1
 Szmid, Z., 2.5.1, 5.3
 Szymański, J. T., 9.2.2
 Tabbernor, M. A., 4.3.1, 4.3.2, 4.3.7, 6.1.1, 8.8
 Taft, E. A., 4.3.4
 Taftø, J., 4.3.4, 4.3.7, 8.8
 Tairov, Yu. M., 9.2.2
 Takahashi, H., 4.3.7
 Takahashi, K., 7.1.6, 7.1.8
 Takahata, T., 9.2.2
 Takama, T., 4.2.6
 Takano, M., 7.1.6, 7.1.8

AUTHOR INDEX

- Takano, Y., 5.3
 Takayanagi, K., 4.3.8
 Takeda, H., 9.2.2
 Takeda, T., 4.2.3, 4.4.2
 Takéuchi, Y., 9.2.2
 Tanaka, H., 7.1.8
 Tanaka, M., 4.2.2, 4.3.7, 7.1.6, 8.8
 Tanaka, N., 3.4
 Tanaka, T. J., 4.2.4, 4.2.6
 Tanemura, M., 9.1
 Tanimoto, M., 7.1.6
 Tanioka, K., 7.1.6
 Tanisaki, S., 9.8
 Tanner, B. K., 2.7, 4.1, 5.3
 Tanoué, H., 4.2.3
 Tao, K., 2.3
 Taran, Yu. V., 4.4.2
 Tardieu, A., 2.6.2
 Tarling, S. E., 3.4
 Tasset, F., 4.4.2
 Tate, M. W., 2.7
 Taub, H., 7.3
 Taupin, D., 2.3
 Tavard, C., 4.3.3
 Taxer, K., 9.2.2
 Taylor, A., 2.3, 4.2.1, 5.2, 9.2.1
 Taylor, B. N., 4.2.1, 4.2.2, 4.2.3, 5.3
 Taylor, H. F. W., 9.2.2
 Taylor, J., 2.3, 5.2
 Taylor, J. C., 8.6
 Taylor, P. R., 6.1.1
 Taylor, R., 9.5, 9.6
 Tazzari, S., 4.2.1, 4.2.6
 Tchoubar, C., 4.3.5
 Tchoubar, D., 4.3.5
 Teatum, E. T., 9.3
 Teeter, M. M., 3.4
 Teller, E., 9.2.1
 Teller, R. G., 2.5.2
 Tello, M. J., 9.8
 Templer, R. H., 7.1.6
 Templeton, D. H., 4.2.3, 4.2.6, 6.3
 Templeton, L. K., 4.2.3, 4.2.6, 6.3
 Tence, M., 4.3.4
 Teng, T. Y., 3.4
 Tennevin, J., 2.7
 Teo, B. K., 4.2.3, 4.3.4
 Terada, N., 4.2.3
 Terasaki, D., 5.2
 Terasaki, O., 2.5.1, 4.3.7, 5.2
 Terhell, J. C. J. M., 9.2.1
 Terminasov, Yu. S., 5.3
 Termonia, Y., 2.3
 Teuchert, W., 4.4.2
 Thakkar, A. J., 4.3.3, 6.1.1
 Thaller, C., 3.1
 Thatcher, D. R., 3.1
 Theisen, R., 4.2.4
 Theobald-Dietrich, A., 3.1
 Thiel, D. J., 4.2.5
 Thierry, J. C., 3.4
 Thiessen, M. J., 3.1
 Thinh, T. P., 4.2.4
 Thole, B. T., 4.3.4
 Thomas, D. J., 7.1.6
 Thomas, G., 3.5, 5.4.2, 7.1.6
 Thomas, J. M., 4.3.4
 Thomas, J. O., 8.6
 Thomas, L. H., 4.2.6, 7.4.3, 8.7
 Thomas, P., 7.3
 Thomas, R. K., 2.9
 Thomlinson, W., 2.3, 7.4.4, 8.6
 Thompson, A. B., 9.2.2
 Thompson, A. W., 2.2, 3.4
 Thompson, D. J., 4.2.1
 Thompson, J. B., 9.2.2
 Thompson, P., 2.3
 Thompson, T. E., 3.2
 Thomsen, J. S., 4.2.2, 5.2, 5.3, 7.5
 Thuesen, G., 4.2.3, 4.2.6
 Thut, R., 4.4.2
 Tiao, G. C., 8.1, 8.2
 Tibballs, J. E., 6.3
 Tighe, N. J., 3.5
 Tikhonov, A. N., 2.6.1
 Tikhonov, V. I., 6.1.1
 Tilton, R. F., 3.4
 Tilton, R. F. Jr., 3.4
 Timashoff, S. N., 2.2, 2.6.1
 Timchenko, T. I., 9.2.2
 Timmers, J., 5.2
 Timmins, P. A., 2.6.2
 Tindle, G. L., 4.4.3
 Tipson, R. S., 3.1
 Tissen, J. T. W. M., 3.1
 Tivol, W. F., 4.3.8
 Tixier, R., 5.3
 Toby, B. H., 2.3
 Tode, G. E., 3.4
 Toellner, T. S., 5.3
 Tofield, B. C., 8.7
 Tohji, K., 4.2.1
 Tokonami, M., 9.2.1, 9.2.2
 Tokumaru, Y., 5.1
 Tokumoto, M., 4.2.3
 Tolhoek, H. A., 7.4.3
 Toman, K., 5.2
 Tomaszewski, P. E., 5.3, 9.2.2
 Tomimitsu, H., 2.8
 Tomita, T., 9.2.1
 Tomkeieff, M. V., 5.3
 Tomlin, S. G., 4.2.1
 Tomokiyo, Y., 4.3.7, 8.8
 Tomonaga, N., 5.3
 Tonomura, A., 4.3.8
 Toorn, P. van, 7.2
 Toraya, H., 2.3, 5.2
 Tossel, J. A., 4.3.4
 Tournarie, M., 2.3
 Town, W. G., 9.5, 9.6
 Toyoshima, N., 3.4
 Trail, J., 4.2.1
 Trammell, G. T., 6.1.2
 Trautmann, N., 4.4.2
 Travennier, M., 5.2
 Travis, D. J., 7.1.6
 Treacy, M. M. J., 4.3.8, 9.1
 Trebbia, P., 4.3.4
 Tremayne, M., 8.6
 Treverton, J. A., 3.5
 TrewHELLA, J., 2.6.1
 Trigunayat, G. C., 5.3, 9.2.1
 Tripathi, A. N., 4.3.3
 Troitsky, V. I., 2.9
 Trost, A., 2.3
 Trueblood, K. N., 2.2, 8.3
 Trzhaskovskaya, M. B., 4.2.4
 Tse, T., 4.2.5
 Tseng, H. K., 7.4.3
 Tsernoglou, D., 3.4
 Tsu, Y., 4.2.3
 Tsuda, K., 4.3.7, 8.8
 Tsuji, M., 4.3.8
 Tsukimura, K., 3.4
 Tsuno, K., 4.3.8
 Tsutsumi, K., 4.2.3
 Tsvetkov, V. F., 9.2.2
 Tsypursky, S. I., 2.4.1
 Tu, H. Y., 3.1
 Tubbenhauer, G. A., 7.1.6
 Tucker, P., 8.2
 Tucker, T. N., 5.3
 Tugulea, M. N., 7.4.3
 Tuinstra, F., 3.4, 5.2, 9.8
 Tukey, J. W., 8.2
 Tulkki, J., 7.4.3
 Tung, M., 3.1
 Tuomi, T., 2.7
 Turberfield, K. C., 2.5.2
 Turchin, V. F., 4.4.2
 Turkenburg, J. P., 3.4
 Turner, J. N., 4.3.8
 Turner, P. S., 2.4.1, 4.2.4, 4.3.1, 4.3.2, 6.1.1
 Tutton, A. E., 3.2
 Tuzov, L. V., 5.3
 Tzafaras, N., 3.4
 Uchiyama, K., 7.1.6
 Udagawa, Y., 4.2.1, 4.2.3
 Uehling, E. A., 4.2.2
 Ueno, Y., 7.1.8
 Ugarte, D., 4.3.4
 Ullrich, H.-J., 5.3
 Ullrich, J. B., 4.4.2
 Umanskii, M. M., 7.5
 Umanskij, M. M., 5.2
 Umansky, M. M., 5.3
 Umeno, M., 5.3
 Umezawa, K., 4.2.6
 Unangst, D., 5.3
 Uno, R., 2.5.1
 Unionius, L., 2.3, 8.6
 Unwin, P. N. T., 4.3.7, 4.3.8
 Urbanowicz, E., 5.3
 Ursell, H. D., 6.1.1
 Usami, K., 7.1.6
 Usha, R., 3.4
 Uspeckaya, G. I., 5.3
 Usuda, K., 5.3
 Utlaut, M., 4.3.4
 Uyeda, N., 4.3.8
 Uyeda, R., 2.7, 4.3.7, 5.4.2, 8.8
 Vacquier, V. D., 3.1
 Vainshtein, B. K., 2.2, 2.4.1, 4.3.5
 Vajda, I., 2.3
 Valentine, R. C., 7.2
 Valvoda, V., 4.1
 Van Bommel, A. J., 4.2.6
 Van Dyck, D., 4.3.8
 Van Landuyt, J., 4.3.8
 Van Mellaert, L., 2.7
 Vanonni, F., 4.4.2
 Vansteelandt, L., 4.4.2
 Van Tendeloo, G., 4.3.8, 9.2.1, 9.2.2
 Varghese, J. N., 4.2.5
 Varnum, C. M., 4.4.2
 Vaughan, D. J., 4.3.4
 Veeraraghavan, V. G., 2.3
 Veigele, W. J., 4.2.4, 4.2.6, 7.4.3
 Veillard, A., 6.1.1
 Venghaus, H., 4.3.4
 Vercillo, R., 7.1.6
 Vergamini, P. J., 3.4
 Verheijen, M. A., 9.2.2
 Verin, I. A., 3.1
 Verma, A. J., 9.2.2
 Verma, A. R., 9.2.1
 Vernon, W., 2.2, 7.1.6
 Vettier, C., 4.2.5
 Veysseyre, R., 9.8
 Via, G. H., 4.2.3
 Victoreen, J. A., 4.2.4
 Villain, F., 4.2.3
 Villain, J., 9.8
 Villars, P., 9.3
 Vincent, M. G., 6.3
 Vincent, R., 4.3.7, 8.8
 Vincze, L., 4.2.5
 Vineyard, G. H., 2.3
 Visser, J. W., 2.3, 5.2, 9.8
 Viswamitra, M. A., 9.7
 Vittone, E., 4.2.2
 Vittot, M., 7.1.6
 Vogels, A. B. P., 2.3
 Vogt, T., 4.4.2
 Voigt, W., 7.4.2
 Voigt-Martin, I. G., 4.3.7
 Vollath, D., 4.2.4
 Volz, K., 2.2
 Von Dreele, R. B., 6.4, 8.6
 Von Festenberg, C., 4.3.4
 Voronin, L. A., 2.6.1
 Vos, A., 7.4.2
 Voss, R., 4.3.7, 4.3.8
 Vossers, H., 3.4
 Vriend, G., 3.4
 Vrublevskaya, Z. V., 4.3.5, 9.2.2
 Vucht, J. H. N. van, 9.3
 Vvedensky, D. D., 4.3.4
 Waarzak, I., 3.1
 Waber, J. T., 4.2.4, 4.2.6, 4.3.1, 6.1.1, 9.3
 Waché, C., 5.3
 Wachtel, E., 2.6.2
 Wada, N., 4.2.3
 Waddington, W. G., 4.3.8
 Wade, R. H., 4.3.8
 Wagenfeld, H., 4.2.6, 6.3
 Wagner, C. N. J., 2.3
 Wagner, R., 2.6.2
 Wagner, V., 4.4.2
 Wagshul, M. E., 4.4.2
 Wait, E., 3.4
 Wakabayashi, K., 7.1.8
 Wakita, H., 4.2.3
 Walder, V., 5.3
 Walker, A. R., 5.4.2
 Walker, G. A., 2.3
 Walker, N., 6.3
 Wall, J., 4.3.8
 Wall, M. E., 2.7
 Wallace, C. A., 2.7, 5.3
 Waller, I., 4.2.6, 7.4.3

AUTHOR INDEX

- Walls, M. G., 4.3.4
 Walter, G., 2.6.1
 Walters, K., 4.4.2
 Walton, D., 7.1.6
 Wang, D. N., 4.3.7
 Wang, J., 4.3.3
 Wang, M. S., 4.2.6
 Wang, S. Q., 8.8
 Warble, C. E., 4.3.8
 Warburton, W. K., 4.2.3, 7.1.5
 Ward, K. B., 3.1
 Ward, R. C., 7.4.2
 Ward, R. C. C., 2.7
 Ware, N. G., 2.3
 Warren, B. E., 2.3, 4.2.5, 4.3.5
 Warrington, D. H., 1.3
 Waschkowski, W., 4.4.4
 Waser, J., 6.2, 8.3
 Washburn, J., 3.5
 Waśkowska, A., 5.3
 Wassermann, G., 2.3
 Watanabe, D., 4.3.7, 8.8
 Watanabe, H., 4.3.7, 8.8
 Watanabe, T., 4.2.3, 6.1.1
 Waterbaugh, K. D., 3.4
 Watkin, D. J., 2.3
 Watson, D. G., 9.5, 9.6, 9.7
 Watson, D. L., 2.7
 Watson, K. J., 6.1.1
 Watson, L. M., 4.2.2
 Weaver, L. H., 3.1
 Weaver, W., 2.6.1
 Weber, H., 7.4.2
 Weber, H.-P., 2.3
 Weber, K., 6.3
 Weber, P. C., 3.1
 Weber, W., 4.2.6
 Weckerman, B., 4.4.2
 Weertman, J., 9.2.1
 Weertman, J. R., 9.2.1
 Wehenkel, C., 4.3.4
 Weibel, E., 4.3.8
 Weickenmeier, A., 4.3.2
 Weickenmeier, A. L., 4.3.7, 8.8
 Weigel, D., 9.8
 Weik, H., 5.3
 Weill, F., 9.2.2
 Weill, G., 2.5.1
 Weininger, M. S., 3.4
 Weinstock, B., 4.3.3
 Weisenberger, P., 4.2.3
 Weisgerber, S., 2.2
 Weiss, R. J., 6.3, 7.4.3
 Weiss, Z., 9.2.2
 Weissenberg, K., 2.2
 Weissmann, S., 5.3
 Weisz, O., 5.3
 Welberry, T. R., 3.4
 Wellenstein, H., 4.3.3
 Wells, A. A., 7.1.6
 Wells, A. F., 9.1, 9.2.1
 Wells, M., 4.4.5
 Welsch, R. E., 8.1, 8.2, 8.5
 Welsh, R. C. J., 4.4.2
 Weng, X. D., 4.3.4
 Wenk, H. R., 4.3.8
 Wennemer, M., 9.2.2
 Wenskus, R., 7.4.3
 Wenzl, H., 5.3
 Werner, K., 4.4.2
 Werner, P. E., 2.3, 8.6
 Werner, S., 2.8
 Werner, S. A., 4.4.3, 4.4.4, 6.2,
 6.4, 7.5
 Wertheim, G., 2.3
 Wery, J. P., 3.4
 West, D. R. F., 3.5
 West, J. M., 3.5
 West, K., 2.3
 Westbrook, E. M., 3.2, 7.1.6
 Westbrook, M. L., 7.1.6
 Whaling, W., 7.3
 Whatmore, R. W., 2.7
 Whelan, M. J., 3.5, 4.3.2,
 4.3.6.2, 4.3.8, 5.4.1
 White, E. T., 3.2
 White, T. J., 9.2.2
 Whitfield, H., 4.3.7
 Whitney, D. R., 5.2, 5.3
 Whittaker, E. J. W., 7.1.1
 Whittemore, W. L., 4.4.2
 Wichmann, E. H., 4.2.2
 Wick, G. C., 4.4.2
 Wicks, B. J., 3.5
 Widom, J., 7.1.6
 Wiedmann, L., 4.2.1
 Wiegand, C. E., 4.2.2
 Wien, W., 4.3.4
 Wiesler, D. G., 2.9
 Wiewióra, A., 9.2.2
 Wiewiorosky, J., 2.3
 Wignall, G. D., 2.6.2
 Wilkinson, A. P., 8.6
 Wiles, D. B., 2.3, 8.6
 Wiley, D. C., 7.1.6
 Wilhelm, T., 7.1.6
 Wilkens, M., 5.2
 Wilker, C. N., 4.3.4
 Wilkins, J. W., 4.3.4
 Wilkins, M. H. F., 2.6.1
 Wilkins, S. W., 4.2.5, 6.1.1, 6.4
 Wilkinson, A. P., 2.3
 Wilkinson, C., 2.2
 Wilkinson, D. H., 7.1.6
 Wilkinson, M. K., 9.8
 Will, G., 2.3, 5.2, 5.3, 7.3, 8.6
 Wille, H.-C., 5.3
 Wille, P., 4.4.2
 Williams W. G., 4.4.2
 Williams, B. G., 4.3.4, 7.4.3
 Williams, D. B., 4.3.8
 Williams, D. E. G., 9.7
 Williams, E. J., 7.5, 8.4
 Williams, G. P., 7.4.4
 Williams, J. C., 3.5
 Williams, J. M., 2.5.2
 Williams, R., 3.4
 Williams, W. G., 4.4.2
 Williamson, G. K., 3.5
 Willis, B. T. M., 2.2, 2.3, 2.5.2,
 3.6, 4.4.6, 5.3, 5.5, 6.1.1,
 6.1.3, 6.2, 7.4.2, 8.6, 8.7
 Willoughby, A. F. W., 5.3
 Willson, P. D., 2.3
 Wilson, A. J. C., 1.4, 2.3, 2.4.2,
 2.5.1, 3.3, 4.2.2, 4.3.5, 5.1,
 5.2, 5.3, 6.3, 6.4, 7.5, 8.1,
 8.2, 9.2.1, 9.2.2, 9.7
 Wilson, A. R., 4.3.8
 Wilson, C. G., 5.3
 Wilson, E., 3.1
 Wilson, H. R., 2.6.1
 Wilson, K., 7.5
 Wilson, R. J. F., 7.1.6
 Wilson, R. R., 4.2.1
 Wilson, S. A., 2.8
 Winchell, P. G., 2.3
 Windisch, D., 5.3
 Windsor, C. G., 2.5.2, 4.1,
 4.4.6, 7.3, 8.6
 Winick, H., 4.2.1, 4.2.3
 Winick, M., 7.4.3
 Winkler, F. K., 2.2
 Winslow, E. H., 4.2.4
 Wippler, C., 2.6.2
 Witters, R., 2.6.1
 Wittmann, H. G., 3.4
 Wittmann, J. C., 3.5
 Wittono, G., 4.2.6
 Witz, J., 2.2, 2.6.2
 Włodawer, A., 2.2, 6.3
 Woicik, J. C., 4.2.3
 Wokulska, K., 4.2.2, 5.3
 Wołczyr, M., 5.3
 Wolf, B. de, 2.6.2
 Wolf, J., 4.2.2, 5.3
 Wolf, R. S., 7.3
 Wölfel, E. R., 2.3, 5.3, 7.1.3,
 7.1.6
 Wolff, P. M. de, 1.4, 2.3, 7.1.1,
 9.2.2, 9.8
 Wollan, E. O., 9.8
 Wolpert, R. L., 8.1
 Wolstenholme, J. F. R., 5.2
 Wonacott, A. J., 2.2, 3.4, 7.1.6
 Wondratschek, H., 1.4, 9.8
 Wones, D. R., 9.2.2
 Wong, T. C., 4.3.3
 Wong-Ng, W., 3.4, 5.2
 Wood, G. J., 4.3.8
 Wood, I. G., 3.4
 Wood, R. A., 3.4
 Woodruff, D. P., 4.2.3
 Woodward, J. B., 4.2.6
 Woolfson, M. M., 2.2, 5.3
 Wooster, W. A., 2.2, 5.3, 7.4.2
 Worcester, D. L., 2.6.1
 Worgan, J. S., 7.1.5
 Worlton, T. G., 2.5.2
 Worthmann, W., 2.6.1,
 2.6.2
 Wright, A. F., 3.4, 4.4.2
 Wright, D. J., 2.6.1
 Wright, E. M., 7.5
 Wright, M. M., 8.3
 Wroblewski, T., 3.4
 Wroe, H., 4.4.2
 Wu, C. C., 2.7
 Wu, D. Q., 7.1.6
 Wu, Y., 5.2
 Wu, Y.-Q., 4.2.1
 Wulff, P., 3.2
 Wunderlich, J. A., 3.2
 Wurmbach, P., 2.6.2
 Wyckoff, H. W., 2.2, 3.4
 Xiao, Q. F., 4.4.2
 Xie, J., 7.1.6
 Xie, S.-D., 4.3.3
 Xuong, Ng. H., 2.2, 3.4, 7.1.6
 Yaakobi, B., 4.2.1
 Yabuki, S., 2.6.2
 Yagi, K., 4.3.8
 Yakovlev, V. A., 7.1.6
 Yakowitz, H., 5.3
 Yamada, N., 5.3
 Yamada, S., 2.9
 Yamagishi, H., 4.3.7
 Yamaguchi, M., 2.7, 7.1.6
 Yamaguchi, T., 4.2.3
 Yamamoto, A., 9.8
 Yamamoto, M., 3.4
 Yamanaka, T., 9.2.2
 Yamashita, T., 7.1.7
 Yamazaki, H., 3.4
 Yan, D. H., 4.3.7
 Yano, Y., 7.1.6
 Yao, T., 4.2.1, 4.2.3
 Yap, F. Y., 4.2.2, 5.2, 7.5
 Yap, Y., 5.3
 Yasuami, S., 5.3
 Yates, A. C., 4.3.3
 Yeates, T. O., 3.1
 Yeh, J. J., 4.2.4
 Yin, Y., 3.1
 Yocom, C. F., 4.2.3
 Yoder, H. S., 9.2.2
 Yonath, A., 3.4
 York, E. J., 6.3
 Yoshiida, N., 4.2.3
 Yoshimatsu, M., 2.3, 4.2.1
 Yoshimura, M., 2.3
 Yoshioka, H., 8.8
 Yoshioka, Y., 7.1.6
 Young, A. C. M., 3.4
 Young, H. D., 4.4.4
 Young, R. A., 2.3, 4.2.5, 5.2,
 6.3, 8.6
 Yvon, K., 2.3
 Zaanen, J., 4.3.4
 Zabel, H., 2.9
 Zabidarov, E. I., 4.4.2
 Zaccai, G., 2.6.2
 Zach, J., 4.3.8
 Zachariasen, W. H., 4.2.6, 4.4.2,
 6.3, 6.4
 Zagari, A., 3.1
 Zagofsky, A., 2.3
 Zahorowski, W., 5.3
 Zakharov, N. D., 4.3.8
 Zaloga, G., 3.4
 Zaluzec, N. J., 4.3.4, 8.8
 Zanchi, G., 4.3.4
 Zanevskii, Yu. V., 7.1.6
 Zani, A., 5.3
 Zarka, A., 2.8
 Zassenhaus, H., 1.4, 9.8
 Zeedijk, H. B., 3.5
 Zeidler, T., 2.9
 Zeisler, R., 4.4.2
 Zeissler, C. J., 4.4.2
 Zeitler, E., 3.5, 4.3.4, 7.2
 Zemany, P. D., 4.2.4
 Zemlin, F., 3.5
 Zeppenfeld, K., 4.3.4
 Zeppezauer, E. S., 3.4
 Zeppezauer, M., 3.4
 Zerby, C. D., 4.2.6
 Zernicke, F., 2.6.1
 Zevin, L. S., 5.2, 5.3, 7.5
 Zeyen, C. M. E., 4.4.2
 Zha, C. S., 2.5.1

AUTHOR INDEX

- Zhang, X.-J., 3.4
Zhang, Y., 2.3, 5.2
Zhao, Z. X., 4.3.8
Zhdanov, G. S., 4.1, 9.2.1
Zhou, X.-L., 2.9
Zhukhlistov, A. P., 9.2.2
Zhu, J., 4.3.4
Zhukhlistov, A. P., 4.3.5,
 9.2.2
Zimmermann, J., 4.2.1
Zimmermann, S., 4.3.4
Zinke, M., 2.6.1
Zipper, P., 2.6.1
Zirwer, D., 2.6.1
Zittlau, W., 4.3.3
Zobel, D., 3.4
Zobetz, E., 9.1
Zocco, T. G., 2.9
Zolensky, M. E., 2.3
Zolliker, P., 5.5
Zolotoyabko, E., 5.3
Zoltai, T., 9.2.2
Zorkaya, O. N., 9.7
Zorkii, P. M., 9.2.2
Zorky, P. M., 9.7
Zosi, G., 4.2.2, 5.3
Zou, X. D., 4.3.7
Zsoldos, É., 5.3
Zubenko, V. V., 5.3
Zucchino, P., 7.1.6
Zucker, U. H., 6.1.1
Zuñiga, F. J., 9.8
Zuo, J., 8.8
Zuo, J. M., 4.3.7, 4.3.8, 5.4.1,
 8.8
Zúra, J., 5.3
Zurek, S., 3.4
Zvyagin, B. B., 3.5, 4.3.5,
 9.2.2
Zwoll, K., 5.3

Subject Index

Abbe refractometer, 160
 Abbe theory, 420
 Abelian module, 937
 Aberrations (see also Systematic errors)
 centroid displacements, 494
 coefficients, 426
 geometrical, 46, 83, 86, 493
 in powder diffractometry, 46, 48, 50
 line-profile breadths, 494
 of an energy-dispersive diffractometer, 497
 physical, 46, 85, 86, 493, 494
 refraction, 492
 transparency, 49
 Absolute calibration of SANS data, 108
 Absolute intensity in SANS, 108
 Absolute measurements, 505
 of lattice spacings, 505, 526, 529–533
 Absorbed dose, definition of, 958
 Absorption, 599, 609, 653
 air, 73
 anomalous, 416
 coefficients, 213, 218
 coefficients for Bloch waves, 735
 coefficients for neutrons, 461
 coefficients, linear, 599
 coefficients, mass, 600
 cross sections, macroscopic, 461
 edges, 191, 202, 205, 206, 209, 599
 edges, wavelengths of, 205–211
 effects, 261
 efficiency, 623
 factor, 51
 function, 261
 in XED, 86
 length, 188
 minimization by suitable mounting of single crystals, 163
 of generated X-rays in target, 191
 photoelectric, 599
 systematic error, 528
 systematic error, elimination, 521–524, 528–529
 X-ray, 599–608
 Absorption corrections, 170, 600–608
 neutron diffraction, 177
 Accelerating voltage
 fluctuations, 424
 of a transmission electron microscope, determination, 539
 Accessible range of d 's, 38
 Accuracy, 490, 492, 707
 factors determining, 501
 Accuracy of lattice-parameter (lattice-spacing) determination, 505, 507, 526, 533–536
 evaluation, 534
 (methods of) increasing, 532–536
 relative, 505
 Acoustic modes, 653, 654
 Activity, definition of, 958
 Adequate protection, definition of, 958
 Adhesives for mounting specimens, 163
 Aggregation effects in SANS, 107
 Air absorption, 73
 Air and window transmission, 73
 Air scattering, 74, 665
 ALCHEMI (atom location by channelling enhanced microanalysis), 411
 Alignment and angular calibration, 46

Aluminium
 dielectric coefficients, 402
 effective number density, 411
 film, 393
 Ambiguities in modulated structure notation, 936
 Amorphous material, diffraction from, 24
 Analyser, 530
 perfect-crystal, 665
 Analysis of charge density, 713–734
 Analysis of spin density, 713–734
 Analytical extrapolation of lattice parameters, 493
 Anatase, high-energy resolution spectra, 408
 Anger camera for neutrons, 650
 Angle definition, use of peak or centroid for, 63
 Angle-dispersive diffractometry, 491, 495–496
 Angle-reading error, 524
 Angle-setting error, 524
 Angles between crystal blocks, determination, 516
 Angles in direct and reciprocal space, 4
 Angles of reciprocal cell, determination, 517
 Angular distribution of reflections in Laue diffraction, 29
 Angular momentum, 727
 orbital, 731
 Angular setting errors (precession), 35
 Angular-velocity factors, 596
 Anharmonicity, 585, 722
 Anisotropic mosaic crystals, 432
 Anisotropic temperature factors, 697
 Anisotropic thermal diffuse scattering correction, 654
 Anode current/voltage relationship in electrochemical thinning, 175
 Anomalous absorption, 416
 Anomalous dispersion (scattering) (see also Dispersion), 21, 188, 241, 733
 not anomalous, 241
 Anomalous transmission, 116
 Anti-equi-inclination setting, 31
 Antiferromagnetic order, 728
 Antiferromagnetism, 140
 Antiferromagnets, 728
 Antimorphism, 897
 Antiscatter slits, 45
 Aperiodic lattice, 921, 928, 937
 Approximations
 Born, 591
 Born–Oppenheimer, 713, 722, 723
 commensurate, 909
 convolution, 723
 crystal-field, 729
 dipolar, 731
 first Born, 389
 Glauber, 391
 harmonic, 723
 Hartree–Fock, 732
 impulse, 657
 kinematical, 260
 LCAO, 723
 Moliere high-energy, 260
 no-upper-layer-line, 415
 phase-grating, 260
 projected charge-density, 423
 Approximations
 quasi-Gaussian, 590
 two-beam, 260
 weak-phase-object, 423
 Archimedes method for density measurement, 158
 Area-detector diffractometry, 36, 170
 Area detectors,
 geometric effects, 41
 non-uniformity of response, 41
 television, 630
 Arithmetic crystal classes, 15, 897, 898, 911, 917, 939, 945
 (3+1)-dimensional, 917
 as classification of space groups, 15
 classification by size, 20
 derivation of, 15
 four-dimensional, 15
 notation for, 15
 one-dimensional, 15, 16
 three-dimensional, 15–20
 two-dimensional, 15, 16
 uses of, 15
 Arithmetic equivalence, 911, 939
 Arithmetic point groups, 914
 Arbitrarily equivalent point groups, 939
 Arrangements giving partial reduction of systematic errors, 515, 514, 521–523, 526, 528–531
 Associated Legendre polynomials, 581
 Astigmatism, 421, 424
 Asymmetric Bragg reflections, 526
 Asymmetric (Straumanis) film mounting, 509
 Asymmetry factor, 118
 of peaks, 67
 Asymptotic behaviour of SANS curves, 110
 Atom-centred expansion, 729
 Atom-centred models, 714
 Atom-centred spherical harmonic approximation, 714
 Atom location by channelling enhanced microanalysis (ALCHEMI), 411
 Atomic beams, 189
 Atomic dipole moment, 716
 Atomic environment types, 776
 Atomic form factor, 242
 Atomic orbital basis, 722
 Atomic quadrupole moment, 717
 Atomic scattering factors, 188, 242, 259
 analytical approximation for (tables), 578–581
 for electrons (tables), 263–281
 free atoms (tables), 555–564
 generalized, 565
 ions (tables), 566–577
 Atomic volumes, 774
 Attenuation coefficients, 213, 230, 600
 Auger shifts, 204, 205
 Automation, computer-controlled, 63
 Avalanche multiplication, 619, 634
 Avalanche production, 626
 Average structure, 913
 Avogadro constant, determination of, 534
 Axial divergence, 46, 50, 53, 494, 497
 Axial-divergence error, 494, 523
 correction for, 523
 Axial holography, 427

SUBJECT INDEX

- Axial lengths, determination of, 532
 Axial reflections, 517
- Back reflection, 512–515
 Backgammon (*jeu de jacquet*) counter, 627
 Background, 68, 661
 in SANS, 108, 109
 Background counting rates, 667
 Background radiation, definition of, 958
 Backlash in diffractometer drives, 47, 503, 667
 Balanced filters, 74, 78, 79, 238
 Bandwidth, 197
 Basic polytypes, 763, 766, 767
 Basic structural features, 745–944
 Basic structure, 909
 Basis
 conventional, 944
 crystallographic, conventional, 3
 crystallographic, non-primitive, 3
 crystallographic, primitive, 2
 primitive reciprocal, 2
 standard, 944
 vectors, 944
 Bayerite family, 766
 Bayes's theorem, 681
 Beam centring, 45
 Beam conditions, 120
 Beam divergence, 45, 425, 498
 Beam-splitting crystal, 531
 Beam tilt (see also Misalignment), 524
 Becquerel, definition of, 958
 Bending magnets, 198
 Bent crystals, 77
 Berg-Barrett method, 114
 Beryllium, cross section for neutrons, 439
 Beryllium acetate, 663
 Bessel function, 589, 666
 spherical, 460, 581, 592
 Best linear unbiased estimator, 680
 Best overall fit, 493
 Beta function, 703
 Bethe approximation, 736
 Bethe ridge, 411
 Bethe theory for inelastic scattering, 406–408
 Bias, 689, 707, 709
 of midpoint of a chord, 520
 of peak, 520
 Bijvoet-pair intensity ratios, 251
 Bijvoet-pair techniques, 251
 Binding effects, 391
 Biological macromolecules, SANS, 105
 Birefringence, 153
 of polytypes, 757
 Black-body radiation in X-ray region, 198–199
 Blackman curve, 81
 Blind region, 34
 Bloch standing waves, 411
 Bloch-wave method, 259, 415–416, 426, 735
 Block collimation, 99
 Block polytypism, 760, 766
 Boltzmann statistics, 726
 Bond angles, 698
 Bond lengths, 698, 813
 Bond method, 498, 507, 508, 522–526, 529, 531, 534, 535–536
 for small spherical crystals, 525
 in multiple-crystal spectrometers, 529–531
 systematic errors, 523–524
 Bond-system diffractometers, 522, 524
 Bonding electrons, distribution of, 425
 Bonds, classification of, 791, 813
 Bonse–Hart camera, 100
 Bonse–Hart interferometer, 121
 Born approximation, 591
 first, 389
 Born–Oppenheimer approximation, 713, 722, 723
 Born series, 259
 Borrman effect, 113, 116, 600
 Borrman triangle, 116
 Bound nuclear scattering lengths, 593
 Boundaries, low-angle, 114
 Bragg angle, 187
 accuracy of, 505–506, 516
 determination, 506, 519, 521
 errors, 491, 494
 from a diffraction profile, 519–521
 from a photograph, 519
 from a two-dimensional map of intensity, 522
 measurement of, 505, 518
 operational definitions, 491
 Bragg–Brentano (Parrish) angle-dispersive diffractometers, 44, 495, 664
 Bragg cut-off, 438
 Bragg law, 505
 Bragg optics, 432
 Bragg reflection, 3, 432
 magnetic, 591
 Bravais classes, 910, 913, 940, 945
 (2+1)-dimensional, 915
 (2+2)-dimensional, 916
 (3+1)-dimensional, 917–918
 one-line symbols, 915, 920
 two-line symbols, 915, 920
 Bravais lattice, 3, 15, 913
 Brazil twins, 11
Bremsstrahlung, 37, 191
 for XED, 84
 Brilliance, synchrotron radiation, 197
 Brillouin zone, 657
 Broadening function, 710
 Brownian diffusion, 589
 Broyden–Fletcher–Goldfarb–Shano update, 684
 Cadmium iodide, 754, 756
 Cadmium telluride detector, 623
 Calculated powder patterns, 60
 Calculation of the twin element, 14
 Cambridge Structural Database, 790, 812
 Camera methods for lattice-parameter determination, 491, 497
 Camera radius
 extremely large, 510
 uncertainty, elimination, 510
 Camera tubes
 high-resolution TV, 633
 lead oxide, 634
 Cameras
 back-reflection, 71
 Bonse–Hart, 100
 cylindrical, 70
 Debye–Scherrer, 42, 70
 ellipsoidal mirror in SANS, 106
 flat-film, 71
 for recording lattice-parameter changes, 510
 Gandolfi, 71
 Guinier focusing, 44, 68, 70
 Kossel, 512
 Kratky, 99
 Cameras
 mirror, 106
 miscellaneous, 70
 pinhole, in SANS, 106
 pinhole, in SAXS, 100
 powder, 69–71
 small-angle, 99
 systems for synchrotron radiation, 100
 Capillary tubes for mounting specimens, 162
 Carcinogenesis, 960
 Cast films, 176
 Castaing & Henry filter, 397
 Categories of OD structures, 764
 Cauchy curves, 67
 Cauchy distribution, 689
 Causality, principle of, 246
 CBED (convergent-beam electron diffraction), 416, 540, 735
 CBED disc, 417
 Cell dimensions, incorrect assignment, 170
 Cellulose film containers, 162, 163
 Central-limit theorem, 702
 Centre of gravity (centroid), 518
 additivity, 518
 variance, 518
 Centred lattices, 3
 Centred unit cells, 3
 Centring conditions, 921
 Centring lattice vectors, 3
 Centring reflection conditions, 921
 for (3+1)-dimensional Bravais classes, 935
 Centroid of a reflection, 492
 Centroid of wavelength distribution, 494
 Ceramics, preparation of specimens, 171
 Cerenkov radiation, 401
 Cerium oxide (intensity standard), 500, 503
 Channel-cut monochromators, 77, 121
 Channelling, 189
 Characteristic function, 90
 Characteristic line spectrum, 191, 202
 Characteristic radiation, efficiency of production, 192
 Characteristic X-rays, excitation of, 510
 Characterization of detectors, 639
 Charge, 187
 Charge-cloud model, 715
 Charge-coupled devices, 629
 Charge densities, analysis of, 713–734
 Chemical
 analysis, 154
 etchants for thin section preparation, 173
 etching, 173
 polishing, 174
 properties, 154
 thinning, 175
 Chi-squared (χ^2) distributions, 702, 703
 Chiral volumes, 700
 Chlorite group, 765, 769
 Chlorite–vermiculite group, 769–770
 Choice of reflections, 535
 Cholesky decomposition, 681, 685
 Cholesky factor, 678, 681, 694, 708
 Choppers, 443
 Chromatic aberration constant, 423, 424
 Chromium oxide (intensity standard), 500, 503
 Circle packings, 746–747, 752
 Classification
 of bonds, 791, 813
 of experimental techniques, 24
 of space groups, 15
 Cleavage, 153

SUBJECT INDEX

- Close-packed structures, 752, 761, 897
 interstices in, 753
 lattices possible, 755
 notations for, 753–754, 756
 polytypes, 754–756
 space groups possible, 755
 spheres, 747, 752
 stacking faults in, 758–760
 structure determination of, 756–758
 symmetry of layers, 753
 symmetry of stacking, 755
 voids in, 753
- Cobalt martensites, stacking faults in, 758
- Coherent inelastic scattering, 177
- Coherent multiple scattering, 661
- Coherent (Rayleigh) scattering, 554
- Coherent scattering cross sections, 594
- Coherent scattering lengths, 594
- Cohesive energy, 721
- Coincidence operations, 761
- Cold neutrons, 105
- Collimation, 37
 block, 99
 in-plane, 522
 of neutrons, 105, 431
 systematic errors connected with, 523–524
- Collimators
 misalignment (tilt), 523–524
 misalignment (tilt), error, 524
 Soller, 82, 443
- Collinear structures, 591
- Colour groups, 21
- Column approximation, 414
- Combined aberrations, 50
- Combined methods, spectrometers for, 531
- Commensurate approximation, 909
- Commensurate modulated structures, 907–944
- Comparison measurements of lattice parameters, 508
- Compensating transformations, 940
- Compensating translations, 940
- Composite crystal structures, 907, 941
- Composition surfaces, 10
- Compton scattering, 90, 213, 242, 554, 599, 657–661, 663, 713
 non-relativistic approximations, 657–659
 relativistic treatment, 659–660
- Compton shift formula, 657
- Compton wavelength, 260
- Computer-controlled automation, 63
- Computer graphics for powder patterns, 69
- Computer programs
CRYSTIN, 778
 data processing, 596
- Computer simulation in estimation of error, 536
- Computing methods for electron diffraction, 425
- Concentration effects, 97
 elimination of, 98
- Condensed models, 766
- Condition number, 678, 682
- Conditional probability density function, 679
- Conditional Q - Q plot, 708
- Conditioning, 684
- Cone-axis photography, 35
- Confidence level, 64
- Conic section, 515
- Conical surface of an hkl reflection, 510
- Conjugate-gradient methods, 686
- Conservation laws, 657
- Constrained models, 693
- Constraints in refinement, 693, 693–701
- Contact number, 747, 749
- Continuous spectrum, 192
- Contrast
 diffraction, 113, 735
 extinction, 113
 first-fringe, 116
 match-point, 107
 orientation, 113
 variation in SANS, 107
 variation in SAXS, 97
 variation, inverse, 108
 variation, spin, 108
- Conventional basis, 3, 945
- Conventional unit cell, 913
- Conventional X-ray sources, 37
- Convergent-beam electron diffraction (CBED), 80, 416, 417, 540, 735
- Convolution, 66, 505, 518, 534
- Convolution equations, 67
- Convolution of rocking curves, 663
- Convolution range, 66
- Convolution square-root technique, 103
- Coordination complexes, typical interatomic distances, 812–896
- Coordination number, 774
- Core-electron spectroscopy, 404
- Core-loss spectroscopy, 404
- Correction factor
 for absorption and extinction, 612
 for powders, 657
- Correction of systematic error, 653
- Correlated and uncorrelated mosaic blocks, 610
- Correlation coefficients, 724
- Correlation energy, 391
- Correlation function, 90
- Correlation length, 93
- Correlations between recorded intensities, 519
- Corundum
 etching, 173
 intensity standard, 500, 503
- Coulombic self-electronic energy, 721
- Counters
 backgammon (*jeu de jacquet*), 627
 gas-filled, 626
 Geiger–Müller, 522
 parallel-plate, 627
- Counting losses, 625
- Counting modes, 666
- Counting rates, 666–668
 background, 667
 erratic fluctuations, 666
 reflection only, 666
 total, 666
- Counting statistics, 64, 666–668
- Critical-voltage effect, 416, 736
- Critical wavelength, 196
- Cross sections
 differential scattering, 260
 dispersion corrections, 221
 elastic differential scattering, 262
 ionization, 407
 of a rod-like particle, 93
 PDDF of, 102,
 plasmon, 399
 scattering and absorption, 439, 444
- Cryoprotectants, 166,
- Crystal(s)
 analysers, 56
 datum orientation, 33
 definition of, 908
 displacively modulated, 909
 edges, 3
 ideal, 908
 ideally imperfect, 113
 ideally perfect, 113
 intergrowth, 941
 misalignment (tilt), 424
 misalignment (tilt), error, 524
 modulated, 908
 monochromators, 76, 662
 mosaicity, 170
 normal, 908
 orientation matrix, 33
 real, 419
 reflecting power, 590
 rocking curves, 34, 37, 40
 rocking widths, 33
 selection, 148, 151
 slippage within capillary, 165
 systems, 6
- Crystal classes
 arithmetic, 15, 911, 945
 geometric, 15, 911, 913
- Crystal-field approximation, 729
- Crystal-lattice vector and crystal setting, 168
- Crystal profile, 505
- Crystal-size analysis, 81
- Crystal structure
 determination by HREM, 419
 images, 422
- Crystal systems
 cubic, 9, 19
 hexagonal, 7, 15, 19
 monoclinic, 6, 16
 oblique, 15
 orthorhombic, 6, 16
 rectangular, 15
 rhombohedral, 8
 square, 15
 tetragonal, 7, 17
 triclinic, 6
 trigonal, 7, 18
- Crystal thickness
 determination by electron diffraction, 416, 419
 in transmission geometry, 512, 513
- Crystalline solids, 259
- Crystallite-size effects, 62
- Crystallization, 148
- Crystallographic system, 940
- Cubic closest packing, 747
- Cubic crystal system, 9, 19
- Cubic harmonics, 585
- Cumulant expansion, 588
- Cumulative distribution function, 679
- Current density, 725
- Current ionization position-sensitive detectors, 628
- Curvature, lattice, 114
- Curvilinear density functions, 588–590
- Cusp constraint, 715
- Cyclic twins, 10
- Cylinder
 elliptic, 92
 homogeneous, 96
 inhomogeneous, 96
- Cylindrical camera, 70

SUBJECT INDEX

- Cylindrical collimators, 432
 Cylindrical detector recording, 32
 Cylindrical powder cameras, 70
 Cylindrical powder specimens, 57
 Cylindrical sample
 2θ scan, 57
 for neutron diffraction, 177
- d* orbital occupancies, 722
 Darwin width, 662
 DAS (differential anomalous X-ray scattering)
 technique, 218
 Data evaluation, 100
 Data processing
 program for intensity factors, 596
 single-crystal methods, 505, 517, 536
 Databases
 inorganic structures, 778
 organic structures, organometallic structures
 and coordination complexes, 790, 812
 powder diffraction, 81
 Datum orientation of the crystal, 33
 Dauphiné twins, 11
 Davison–Fletcher–Powell update, 684
 de Broglie's law, 186
 Dead-time, 619, 624, 666
 Debye formula, 104
 Debye–Scherrer camera, 70, 162
 aberrations in, 498
 Debye–Scherrer–Hull method, 42
 Debye–Waller factor, 415, 729, 735
 Deconvolution
 in SANS, 107, 111
 techniques, 393
 Defect types, electron diffraction, 424
 Defects, 419
 images, 426
 lattice, 113
 study of, 506, 531
 viewed by an imaging system, 633
 Deformation density, 714
 Deformation map
 $X - N$, 714
 $X - X$, 714
 $X - (X+N)$, 714
 Degrees of freedom, 703
 Delay-line read-out, 627
 Delbrück scattering, 242
 Dense systems in SANS, 112
 Densitometry, 618
 Density, 154
 Density functionals, 721
 Density measurement
 Archimedes method, 158
 flotation, 158
 gradient tube (column), 156
 immersion microbalance, 158
 penetration or swelling of solid, 156
 pycnometry, 158
 vibrating-string method, 158
 volumenometry, 158
 Depth-profiling analysis, 58
 Derivative lattice, 11
 Designated radiation area, definition of, 958
 Desymmetrization of OD structures, 765
 Detection
 efficiency, 624
 limits, 410
 of systematic error, 498–499, 707–709
 quantum efficiency, 639
 systems, 397, 663
- Detection processes (neutrons), 644–652
 electronic aspects, 648–649
 films, 646
 gas ionization, 644–646
 neutron capture, 644
 scintillation, 645–646
 Detection systems (neutrons), 649–651
 Anger camera, 650
 corrections, 652
 gas position-sensitive, 650
 position-sensitive, 649–651
 single detectors, 649
 Detective quantum efficiency (DQE), 624, 639
 Detector recording
 cylindrical, 32
 plane, 32
 V-shaped, 32
 Detector-response correction in SANS, 109
 Detectors
 background from, 663
 characterization, 639
 energy-dispersive, 622, 663
 for electrons, 639
 for neutrons, 644, 649
 gas-filled, 82
 imaging, 623
 in X-ray spectrometers, 522, 529–531
 multiwire, 82
 position-sensitive, 82, 87, 100, 113, 664
 resolution of, 82
 scintillation, 642, 664
 semiconductor, 622–623, 629, 642
 single-wire, 82
 solid-state, 82, 664
 with wide-open window, 522, 527
 Detectors for X-rays, 618–638
 Geiger counters, 618
 photographic film, 498, 618
 proportional counters, 619
 scintillation counters, 619
 solid-state detectors, 620
 Diagram levels, 191
 Diamagnetism, 154
 Dielectric coefficients, 401
 Dielectric description, 399
 Difference densities, 714
 Differential anomalous X-ray scattering (DAS)
 technique, 218
 Differential methods, 527
 Differential scattering cross section, 260
 Diffraction
 contrast, 113, 735
 coordinates, 31
 geometry, practical realization, 36
 grazing-incidence, 58
 imaging, 124
 intensities, 596
 spot size and shape, 37, 39
 topography, 113, 124
 Diffraction absorption fine structure (DAFS), 254
 Diffraction profile, 48, 528, 530
 asymmetry of, 521
 broadening of, 521
 double-crystal, 528
 (in) standardized (form), 519
 location of, 518
 narrow, 528, 530
 parameters of, 528
 shape of, 521
 symmetric, 528
- Diffractometers
 alignment, 46
 area-detector, 36, 170
 background scattering with, 664
 Bragg–Brentano, 495
 double-crystal in SANS, 106
 for powder diffraction, 42
 four-circle, 170, 516
 gears, 503
 inclination, 517
 kappa, 36
 neutron powder, 82, 652
 neutron powder, high-resolution, 541
 operation control, 64
 Seemann–Bohlín, 492, 495
 three-circle, 170
 Diffractometry, 36
 angle-dispersive, 491, 495–496
 energy-dispersive, 491
 Diffuse scattering, 261
 Diffusion, Brownian, 589
 Digital image processing, 635
 Dimension of a lattice, 945
 Dioctahedral sheet, 767
 Dipolar approximation, 731
 Dipole, 716
 Dipole moment
 atomic, 717
 molecular, 724
 Dirac–Fock, 205
 Direct and reciprocal lattices, 2
 Direct crystallization, 174
 Direct image, 115
 Direct lattice, 412, 911
 Direct-lattice parameters, 505
 Direct method, X-ray detectors, 634
 Direct structure analysis, 103
 Direction angles of a crystal face, 4
 Disc specimens, 171
 Disc thinning method, 174
 Dislocations, 114
 Dispersion, 21, 75, 590, 600
 Dispersion corrections, 241–258
 for XED, 86
 tables of, 255–257
 theory of, 243
 Dispersion surfaces, 416, 417, 736
 Displacive modulation, 907
 Distance distribution functions, 104
 Divergent-beam techniques, 510–516
 classification, 512
 Dopant concentration, study of, 531
 Dose equivalent, definition of, 958
 Double-beam
 comparator, 531
 diffractometer, 531
 spectrometer, 531
 technique, 531
 Double-crystal diffraction profile, 528
 Double-crystal diffractometer in SANS, 106
 Double-crystal monochromator (at
 synchrotron), 39
 Double-crystal spectrometers, 528–530
 combined with double-beam technique, 531
 with photographic recording, 510, 529
 with symmetric (Bond) arrangement, 529
 with white X-radiation, 529
 Double-crystal topography, 117
 Double-oscillation method, 168
 DQE (detective quantum efficiency), 624
 Drift chambers, 626

SUBJECT INDEX

- Drude model, 400
 Du Mond diagram, 117
 Duane-Hunt limit, 192
 Dynamic measurements, 626
 Dynamic *R* factor, 427
 Dynamic range, 624
 Dynamical diffraction, 80
 Bloch-wave method, 41
 calculations, 261
 many-beam, 80
 multislice method, 414
 Dynamical wave amplitudes, 414
- Eccentricity error, 524
 elimination, 521–523, 529
 EELS (electron energy-loss spectroscopy), 219, 391–412, 428
 Effect on lattice parameters
 of electric field, 508
 of irradiation, 525
 of pressure, 508
 of temperature, 507, 510, 516, 522, 524, 529
 Effective misorientation, 119
 Efficiency of the production of characteristic radiation, 192
 Eigenvalue filtering, 510
 Eigenvalues, 678
 Eigenvectors, 678
 Elastic constants, 654
 Elastic differential scattering cross section, 262
 Elastic scattering, 416
 factors, 262
 neutron, 727
 Elastic specular neutron diffraction, 126
 Elastic stiffness constants, 654
 Elastic wave, velocity of, 654
 Electric field gradient, 719
 Electrical properties, 154
 Electrochemical thinning, 175
 Electromagnetic waves, 186
 Electron beam, misalignment, 424
 Electron binding energies, 203
 Electron density, 90, 713
 experimental, errors in, 724
 thermally smeared, 723
 Electron diffraction, 259
 absorption effects, 188, 261
 boundary conditions, 259
 computing methods, 425
 convergent-beam, 80, 735
 crystal thickness, 188, 419
 detectors for, 639–643
 determination of crystal thickness, 416, 419
 HOLZ technique, 538
 interaction constant, 259
 intensities, 416
 Kikuchi technique, 538
 lattice-parameter determination, 537
 measurement of structure factors, 416
 oriented texture patterns, 412–414
 pattern analysis, 537
 pattern indexing, 538
 patterns, 80, 390
 potential field, 259
 preparation of specimens, 171
 propagation function, 259
 reciprocal-space representation, 412
 relativistic values, 259
- Electron diffraction
 scattering factors, 188, 259
 selected-area, 80, 538
 structure factors, 416
 transmission function, 259
 useful parameters as a function of accelerating voltage, 281
 Electron diffractometry, 413
 Electron distributions, 713
 Electron energy-loss near-edge structure (ELNES), 408
 Electron energy-loss spectrometry
 Castaing & Henry filter, 397
 crystallographic information from, 397
 parallel detection, 397
 Wien filter, 396
 Electron energy-loss spectroscopy (EELS), 219, 391–412, 428
 aberrations in, 396
 analysers for, 395
 detection systems, 397
 monochromators for, 395
 non-characteristic background, 394
 spectrometers for, 394–397
 types of excitation in, 393
 Electron holography, 426, 427
 Electron inelastic scattering, 378
 Electron kinetic energy, 721
 Electron microscopy, 80, 419
 preparation of specimens, 171
 Electron multiplication
 in position-sensitive detectors, 622–623
 in proportional counters, 623
 Electron paramagnetic resonance, 190
 Electron scattering
 amplitudes, 259
 inelastic, 391
 Electron spin, interaction with neutron spin, 725–726
 Electron transitions, 261
 Electron-transparent specimens, 171
 Electron-tube device for measurement of intensities, 642
 Electron wavelength of a transmission electron microscope, determination, 540
 Electron neutrality constraint, 715
 Electronic detectors, 639
 Electronic instability, 424
 Electrons
 properties, 187
 scattering factors, 262
 wavelength, 424
 Electropolishing, 174
 Electrostatic moments, 716, 717, 718
 Electrostatic potential, 186, 718
 Electrostatic properties, 721
 Elimination of concentration effects, 98
 Ellipse and ellipsoid packing, 751–752
 Ellipsoid, 92
 Ellipsoid of revolution, 94
 Ellipsoidal-mirror SANS camera, 106
 Elliptic cylinder, 92
 ELNES (electron energy-loss near-edge structure), 408
 Emission lines, 202, 203, 204, 206, 209
 Emission-spectrum profile, 519
 Empirical correction factor for preferred orientation, 61
 Empirical metallic radii, 774
 Enantiomorphous pairs of space groups, 20
 Energy discrimination, 625
- Energy-dispersive
 analysis, 428
 detectors, 625, 641, 663
 diffraction, 58, 619
 diffractometer, aberrations of, 497
 methods, in lattice-spacing determination, 496, 507
 neutron diffraction, 87
 techniques, 496
 X-ray diffraction, 84, 619
 Energy-filtered lattice images, 428
 Energy-flow triangle, 115
 Energy-flow vector, 119
 Energy-loss spectrometer, 395
 Energy of radiation, 187
 Energy resolution, 396, 619, 620, 622
 Enhanced symmetry, 13
 Entrance slit, 45
 Entropy maximization, 691
 Epitaxic formation, 176
 Epitaxic layers, study of, 516, 529
 Epitaxy, 153
 EPR (electron paramagnetic resonance), 190
 Equatorial divergence, 497
 Equatorial geometry, 516
 Equi-inclination setting, 31
 Equivalent origins, 15
 Equivalent superspace groups, 940
 Erratic fluctuations in counting rates, 667
 Errors (see also Aberrations, Systematic errors)
 and aberrations in lattice-parameter measurements, 490
 and uncertainties in wavelength, 493
 in angle reading, 524
 in angle setting, 524
 in experimental electron density, 725
 of the Bragg angle, 491
 Escape peaks, 622
 Estimated standard deviation, 707
 of an observation of unit weight, 702
 Estimates, 680
 Etch figures, 153
 Etching
 chemical, 173
 corundum, 173
 ion sources, 173
 sputter, 173
 Euclidean norm, 678
 Eulerian angles, 694
 Eulerian-cradle diffractometer, 517
 Eulerian-geometry diffractometer, 517
 Evaporated thin films, 173
 Ewald sphere, 26, 526, 656
 EXAFS (extended X-ray absorption fine structure), 24, 189, 213–220, 254, 409
 Exchange-correlation energy, 721
 Excitation errors, 414
 Excitation of characteristic X-rays, 510
 EXELFS (extended electron fine structure), 409
 Exit beam, extremely parallel, 532
 Expectation values, 679
 Experimental techniques
 classification of, 24
 for crystal structure analysis, 25
 Exposure of radiation, definition of, 958
 Extended electron fine structure (EXELFS), 409
 Extended solids, 730

SUBJECT INDEX

- Extended X-ray absorption fine structure [(E)XAFS], 24, 189, 213–220, 254, 409
facilities for, 219
External space, 944
External standard, 499
External vibrations, 723
Extinction, 113, 599, 728
 contrast, 113
 correction factor for, 612
 correction, neutron diffraction, 177
 correction, XED, 86
distance, 736
length, 187
primary, 609, 610
secondary, 609, 611
symbol, 13
Extrapolated (midchord) peak, 518
Extrapolation in lattice-parameter determination, 505, 510, 521–522, 535
 analytical, 493–494
 graphical, 493
- F* distribution, 702
Face normals, 5
Face or cleavage plane of a crystal, 4
Factors determining accuracy, 501
Family diffractions, 765
Fano factor, 626
Fano plots, 408
Faraday cage, 642
Faster-than-sound neutrons, 657
Faults in polytypes, 758–760
Feasible point, 693
Fermi chopper, 443
Fermi level, 398
 germanium, 406
 heavy metals, 406
 sulfur, 406
 transition elements, 406
Fermi pseudopotential, 444
Ferrimagnetism, 154
Ferroelectricity, 154
Ferromagnetism, 154
Ferromagnets, 728
Fibre optics, 632
Fibre texture, 414
Fibres, diffraction from, 24
Film
 aluminium, 393
 for neutrons, 646
 germanium, 394
Film shrinkage, 498
 error, elimination of, 509
Filters, 38, 76
 balanced, 74, 78, 238
 Castaing & Henry, 397
 for common target elements, 79
 for neutrons, 438
 for X-rays, 236
 graphite, 82
 optimum-thickness, 238
 polarizing, 438, 440
 single, 78
 thickness, 78
 wavelength change by, 239
Wien, 396
 with scintillation counters, 621
Fine-grained substances, oriented texture patterns, 412
First-fringe contrast, 116
First-order Laue zone (FOLZ), 417, 418
First/second derivatives, 65
Fixed-count timing, 667
Fixed-time counting, 666
Flat-cone setting, 31
Flat crystal, 77
Flat-crystal monochromator, 39
Flat-film camera for Laue patterns, 70
Flat particles, 95
 cross-sectional inhomogeneity, 96
 molecular weight, 93
Flat-specimen aberration, 47, 48
Flipping coil, radio-frequency, 728
Flipping ratios, 592, 728
Flotation, 158
Fluctuations
 in particle orientation, 61–62, 492
 in recording counts, 492, 666
Fluorescence radiation, 657
Fluorescence scattering, 661
Fluorescence spectroscopy, 619
Fluorescence techniques, 218
Fluorescent screens, 640
Fluorophlogopite reflection angles, 503
Focal-line width, 48
Focusing diffractometer geometries, 43
Focusing geometry, 83
Focusing monochromator, 82
Focusing, neutron scattering, 443
Focusing powder camera, 70
Fog density, 618
Fog level, 640
Foil detector, 645
FOLZ (first-order Laue zone), 417, 418
Forbidden reflections, 527
Form factors, magnetic, 454, 591
Four-circle diffractometer, 516
Four-dimensional crystal classes, 16
Fourier imaging, *n*-beam, 422
Fourier integral, 89
Fourier-invariant expansions, 586
Fourier potential, 735
Fourier series, 89
Fourier transformation, 89
 indirect, 111
 techniques, 393
Free-electron gas
 Drude model, 400–401
 Lorentz model, 400
Free-radical scavengers to improve crystal lifetime, 166
Free scattering length, 594
Frequency of space groups, 15
Fresnel diffraction theory, 259
Friedel-pair intensity ratios, 251
Friedel-pair techniques, 251
Friedel's law, 913
Fringe patterns, stacking-fault, 116
Fringe period, 419
Fringe visibility, 421
Full symbols for superspace groups, 921
Gallium selenide, 754
Gamma function, 702
Gamma rays, 187
Gas amplification, 626–627
Gas detector for neutrons, 644
Gas-filled counters, 82, 626
Gas multi-electrode position-sensitive detectors for neutrons, 650
Gas multiplication, 626
Gauss–Markov theorem, 680
Gauss–Newton algorithm, 683, 690, 693
Gaussian curves, 66, 711
Gaussian fits to X-ray scattering factors, 261
Gaussian radial functions, 724
Geiger counter, 618
Gelatine capsules, 163
Generalized Bessel function, 666
Generation of X-rays, 191
Generator stability, 72
Geometric crystal classes, 15, 911, 945
Geometrical aberrations, 41, 493
 for XED, 86
Geometrical analysis of oriented texture patterns, 412
Geometrical instrument parameters, 44
Geometrical peak, 518
Geometry of SANS, 106
Germanium, Fermi level, 406
Germanium film, 394
Gibbs instability, 415
Gibbsite–nordstrandite family, 766
Gittergeister (lattice ghosts), 907
Givens rotations, 679
Glauber approximation, 391
Globular particles, 93
Glove box, definition of, 959
Gnomonic transformations, 29
Gold, dielectric coefficients, 401
Goodness-of-fit parameters, 702, 707
Gordon–Kim model, 721
Gradient tube (column)
 cavities, problem of, 156
 Ficoll gradient, 157
 inclusions, problem of, 156
 shallow gradient, 157
Gram–Charlier series expansion, 586
Graphical extrapolation of lattice parameters, 493
Graphite
 dielectric functions, 403
 monochromator, 37, 38, 51, 620
Gray, definition of, 959
Grazing-incidence diffraction, 58
Grigson scanning method, 81
Growth striations, study of, 530
Growth twins, 10
Guinier and Tennevijn technique, 119
Guinier approximation, 92, 110
Guinier camera, 162
Guinier focusing, 70
Half-life, definition of, 959
Half-width, 506, 519, 522, 526, 528
 (methods of) reducing, 526
 minimum, 506
 of wavelength distribution, 506
Hamilton's *R*-factor ratio test, 704
Hankel transform, 102
Hard-sphere interference model, 98
Hard X-rays, 187
Hardness, 153
Harmonics, cubic, 585
Hartree–Fock
 approximation, 732
 model, 243
 self-consistent field, 659
 wavefunctions, 460
Hat matrix, 705
Heat capacity, 154
Heavy metals, Fermi level, 406
HEED (high-energy electron diffraction), 412

SUBJECT INDEX

- Helimagnetic order, 728
 Hellmann–Feynman constraint, 715
 Hermite polynomial tensors, 586
 Hessian matrix, 684
 Heterogeneous packing, 746
 Hetero-octahedral sheet, 767
 Hexacontatetrapole, 716
 Hexadecapole, 716
 Hexagonal
 closest packing, 747, 752
 crystal system, 7, 15, 19
 High-angle annular dark-field (HAADF)
 images, 428
 High-angle Bragg reflections in lattice-parameter determination, 509, 522, 529, 532
 High-energy electron diffraction (HEED), 412
 High-order Laue zone (HOLZ), 418, 424, 538, 539
 High-pressure structural studies, 87
 High-purity germanium detector, 622
 High-resolution electron microscopy (HREM), 261, 419, 773
 High-resolution energy-dispersive diffraction, 58
 High-resolution experiments, 97
 High-resolution powder diffractometers
 D2B at Institut Laue–Langevin, 541
 HRPD at Rutherford Appleton Laboratory, 541
 High-sensitivity lattice-parameter comparison, 531–532
 High-tension supplies, unsmoothed, 667
 Higher-dimensional crystallography, 908
 Histogramming memories, 626
 Hohenberg and Kohn theorem, 721
 Hollow cylinders, 92
 Hollow particles, 96
 Holographic reconstructions, 427
 Holohedry, 12, 939, 945
 HOLZ (high-order Laue zone), 418, 424, 538, 539
 Homogeneous cylinder, 96
 Homogeneous packing, 746
 Homogeneous particles, 93
 Homogeneous triaxial bodies, 92
 Homometric mapping, 751
 Homo-octahedral sheet, 767
 Horizontal divergence, error, 525
 Horizontal Soller slits, 56
 Householder transformations, 679, 686
 HREM (high-resolution electron microscopy), 261, 419, 773
 Hydrogen-atom scattering factors, 565
 Hydrogen bonding, 906
 Hyperbolic Bessel function, 666
 Hyperfine interaction, 732
 Hyper-resolution, 427
 Hypothesis testing (no remaining systematic errors), 523
 ICDD Powder Diffraction File, 81
 Icosahedral viruses, SANS, 111
 Ideal crystals, 908
 Ideally imperfect crystals, 113
 Ideally perfect crystals, 113
 Idempotency conditions, 722
 Idempotent, 705
 Identity period, 752
 Identity period determination, 508
 accuracy of, 510
 Ill-conditioned least-squares problems, 101
 Image intensifiers, 122, 632, 635
 Image processing, 427, 635
 Imaging detectors, 623
 Imaging plates, 426, 635, 641
 Immersion microbalance, 158
 Impulse approximation, 657
 Incidence aperture, 53
 Incident-beam monochromatization, 120
 Incident-beam monochromator, 53
 Inclination diffractometer, 517
 Inclination of plane of specimen, 494
 Incoherent elastic scattering cross section, 595
 Incoherent multiple scattering, 108, 661
 Incoherent scattering, 177, 554
 Compton, 90
 cross section, 594
 functions (Table 7.4.3.2), 658
 level, 109
 Incommensurate modulated structures, 907–944
 Index of refraction, 600
 Indexing powder patterns, 541
 Indirect method, X-ray detectors, 634
 Indirect transformation method, 101
 Indium antimonide, dielectric coefficients, 401
 Induced matrix norm, 678
 Inelastic coherent scattering, 109
 Inelastic crystal excitations, 425
 Inelastic scattering, 378, 416, 657
 Bethe theory, 406–408
 electrons, 391
 neutrons, 391
 Inelastic scattering factors for electrons (Table 4.3.3.2), 378–388
 Inelastically scattered electrons, 81
 Influential data points, 705, 708
 Information resolution limit, 424
 Infrared radiation, 187
 Inhomogeneities in matter, 105
 Inhomogeneous cylinders, 96
 Inhomogeneous particles, 96
 Inner moments, 718
 Inner surface area, 109
 Inorganic compounds
 silicates, 766–769
 typical interatomic distances, 778–789
 Inorganic Crystal Structure Database, 778
 Insertion devices, 197
 Instrument parameters, geometrical, 44
 Instrumental broadening and aberrations, 47, 101
 Integrated intensity
 for XED and powder samples, 85
 formulae for, 600
 of a reflection, 668
 Integrated reflections, 114
 Intensity, 519
 distribution, two-dimensional map, 522
 of characteristic lines, 191
 of diffracted intensities, 554–595
 standards, 500
 statistics, 519
 variation with take-off angle, 74
 Intensity factors, 596
 angular velocity, 596
 data-processing programs for, 596
 in single-crystal methods, 596–598
 polarization, 596
 trigonometric, 596–598
 Interatomic distances, 778–896
 in inorganic compounds, 778–789
 in metals, 774–777
 in organic compounds, 790–811
 programs for calculating, 778
 Interaxial angles, determination, 525
 Interband transition, 401
 Interference model, hard sphere, 98
 Interferometers
 Bonse & Hart, 121
 Fabry–Perot, 533
 Interferometry, combined optical and X-ray, 533–534
 Intergrowth crystal structures, 907
 Interlaboratory comparison, 536
 Internal
 space, 912, 937, 944
 standard, 499
 translation, 912
 Interparticle interference, 97, 98
 Interpenetrating packing, 751
 Interplanar spacing determination
 accuracy of, 505
 precision of, 505
 Interquartile range, 690
 Intersecting-Kikuchi-line method, 736
 Interstices in close-packed structures, 753
 Intramolecular multiple scattering, 392
 Intrinsic background (neutrons), 651
 Intrinsic component, 917
 Intrinsic efficiency, 622
 Intrinsic part of a space group, 940
 Inverse contrast variation, 108
 Inversion twins, 10, 12
 Ion-beam thinning, 171–173
 Ion-implanted silicon, 525
 Ion sources for etching, 173
 Ionic radii, 778
 Ionicity, degree of, 425
 Ionization cross sections, 407
 Ionizing radiation
 definition of, 958
 protection from, 962–963
 Irradiated area
 displacement of, 526
 exactly defined, 522
 Irradiated specimen length, 45
 Irradiation, study of effects of, 516, 525
 Isometric point groups (crystal classes), 939
 Isotopic replacement, triple, 111
 IUPAC notation, X-ray diagram levels, 191
 Jagodzinski notation, silicon carbide, 754
 Johann monochromator, 664
 Johansson monochromator, 664
 Joint probability density function, 679
 $K\alpha$ doublet, 62, 510, 512–515
 $K\alpha_1$ and $K\beta_1$ wavelengths in lattice-spacing determination, 521
 $K\alpha_2$ radiation, elimination, 510
 $K\beta$ line in lattice-spacing determination, 507
 Kaolinite, 769
 Kappa diffractometer (definition), 37
 Kappa model, 714
 Kikuchi lines, 419
 Kikuchi patterns, 735
 Kikuchi techniques, 538
 Kinematic image, 115
 Kinematic theory, 590
 Kinematical approximation, 80, 260, 262

SUBJECT INDEX

- Kinetic energy, 721
 Kitajgorodskij's categories, 897
 Knife-edge calibration, 498
Kossel
 camera, 512
 cone, 510, 514
 lines, 510–515
 lines, intersections of, 512–513
 method, 510–516
 pattern, 512–514, 735
 plane, 513
 Kramer's constant, 192
 Kramers–Kronig transform, 245
 Kratky cameras, 99
- Label triangulation, 111
Labelling, 97
 isotopic, 108
 Lagrange polynomials, 111
 Lagrange undetermined multipliers, 693
 Lambda curves (Laue), 39
 Lambda symmetry (operations), 763
 Lamellar particles, 97
 Lamellar textures, 412
 Lanthanum hexaboride, instrumental sample, 501
 Large-scale problems, 685
 Larmor frequency, 728
 Laser, He–Ne, 533
 Laser plasma X-ray sources, 189
 Latex particles, 107
Lattice(s)
 aperiodic, 937
 Bravais, 3, 15, 913
 centred, 3
 curvature, 114
 defects, 113
 derivative, 11
 dimension, 937
 direct, 911
 direct and reciprocal, 2
 for close-packed structures, 755
 holohedry, 939
 point, 2
 rank, 937
 twin, 10
 vector, 2
 vector centring, 3
 vector, reciprocal, 2
 Lattice bases, standard, 938
 Lattice-fringe images, 421
 Lattice ghosts (*Gittergeister*), 907
 Lattice-parameter changes, study of, 507, 510, 522, 525, 529–530
 Lattice-parameter determination, 490–541
 aberrations in, 493
 absolute, 505, 525, 529–532
 for rectangular systems, 528
 from one crystal mounting, 509, 510
 from separate photographs, 509
 HOLZ techniques, 538, 540
 inter-laboratory comparison, 536
 Kikuchi techniques, 538–540
 least-squares methods, 498
 local, 525, 529, 532
 neutron diffraction, 541
 of cubic lattice, 528
 of deformed lattice, 513–515
 of imperfect crystal, 522
 of large flat slab, 507, 522, 524, 527
 of perfect crystal, 522
- Lattice-parameter determination
 of polycrystals (Kossel method), 515
 of single crystals, 505–536
 of small spherical crystals, 507, 525
 of standard crystal, 507
 powder diffraction, 491, 506, 509, 518, 521
 precision, 505, 509, 515, 526, 530, 536
 preliminary, 507
 relative, 505
 sensitivity of, 505, 507, 532
 standards, 499
 systematic errors in, 493, 498
 wavelength problems, 492
- Lattice-parameter determination methods
 camera, 497, 507
 diffractometer, 495–496, 516–517
 electron diffraction, 537–540
 energy-dispersive, 496–497
 neutron diffraction, 541
 non-dispersive, 506, 509, 526, 533–534
 polycrystalline X-ray, 491–504
 pseudo-non-dispersive, 506, 526, 528
 single-crystal X-ray, 505–536
 synchrotron, 495
 whole-pattern, 496
 X-ray, 534
- Lattice-parameter differences, determination of, 507, 522, 525, 528–531
- Lattice-parameter measurements
 accuracy of, 490
 discrepancy for silicon, 490
 possible effect of filter, 239
- Lattice parameters
 of silicon, 490, 499
 of silver, 499
 of tungsten, 499
- Lattice-spacing comparators, 530
- Laue class, 13, 938
- Laue diffraction
 multiplicity distribution, 27
 neutron single-crystal, 87
- Laue geometry, 26, 38
- Laue method, 663
- Laue patterns, 27, 124
 flat-film camera for recording, 70
- Laue photography combined with powder diffraction, 506
- Laue point group, 908, 913, 938
- Laue sphere, 26
- Layer-line screen (precession), 34
- Layer-line screen (Weissenberg), 35
- Layer lines, 414
- Layer polytypism, 760, 766
- Layer silicates, 414
- Layer stacking, 752–773
 in polytypes, 760–773
- LCAO (linear combination of atomic orbitals)
 approximation, 715, 723
- Lead oxide camera tubes, 634
- Leakage radiation, definition of, 959
- Least-dense sphere packings, 748, 749
- Least-squares calculations, 678–688
 estimator, 680
 nonlinear, 682
 software for, 688
- Least-squares refinement, 504, 505, 510, 517
 problems, 101
- LEED (low-energy electron diffraction), 24
- Legendre polynomial, 565
 associated, 581
- Lens configuration, 514
- Lens-shaped figures, 512–514
- Levenberg–Marquardt algorithm, 683
- Leverage, 705, 708
- Libration (rotational oscillation), 589
- Libration tensor, 697
- Librational model, 697
- Librational temperature factor, 723, 724
- Licensable quantity, definition of, 959
- Likelihood, 689
- Likelihood-ratio method, 523
- Limited projection topographs, 116
- Limiting resolution of X-ray detectors, 634
- Line focus, 194
- Line profile, 518
 calculated by convolution, 662
- Linear algebra, 678
- Linear attenuation coefficient, 213
- Linear combination of atomic orbitals (LCAO)
 approximation, 715, 723
- Linear estimator, 680
- Linearity, 621
- Linearity of response, 619
- Lithium-drifted germanium detector, 622
- Lithium-drifted silicon detector, 622
- Live X-ray topographs, 122
- Local measurements (topography), 516, 525–527, 529
- Location of diffraction profile, 518
- Long-period polytypes, 757
- Lorentz factor, 497, 596, 710
- Lorentz model, 400
- Lorentz–polarization factor, errors, 60, 523, 596
 correction for, 523
- Lorentzian curves, 66
- Lorentzian functions, 711
- Lorentzian profiles, 67, 400
- Low-angle boundaries, 114
- Low-angle reflections, confusion with escape peaks, 622
- Low-energy electron diffraction (LEED), 24
- Low- Q scattering, 105
- Lower quartile, 813
- Luminescence, photostimulated, 635
- Macromolecules, biological, use of SANS, 105
- Macroscopic absorption cross section, 461
- Magnetic
 Bragg reflection, 591
 domains, 124
 form factors, 454, 592
 interaction vector, 591
 orbital structure factor, 731
 ordering, 725
 space group, 591
- Magnetic properties, 154
 of the neutron, 108
- Magnetic scattering
 of neutrons, 590
 of neutrons, elastic, 591
 X-ray, 733
- Magnetic structure factors, 591, 726, 727
 unit-cell, 591
 X-ray, 733
- Magnetism, 725
- Magnetization density, 591, 725
- Magnetostatic energy, 731
- Magnetostatic properties, 731
- Magnets, bending, 197
- Main reflections, 907

SUBJECT INDEX

- Mains-voltage fluctuations, 667
 Many-beam dynamical diffraction, 80
 Marginal probability density function, 679
 Mass absorption coefficients, 213, 600
 Mass attenuation coefficients, 213–214
 tables of, 230–236
 Mathematical interpretation in single-crystal methods, 536
 Mathematical theory of powder diffractometry, 518
 Matrix diagonalization, 425
 Matrix formulae for two-circle diffractometer, 517
 Maximum degree of order (MDO) polytypes, 762, 767, 768, 769, 770, 772
 Maximum dimension of a particle, 93, 102
 Maximum-entropy method, 428, 689
 Maximum-likelihood estimate, 689
 Maximum-likelihood methods, 691
 Maximum oscillation angle, 33
 Maximum primary dose (MPD), 960
 MDO (maximum degree of order) polytypes, 762, 767, 768, 769, 770, 772
 Mean, 679, 813
 Mean-square broadening, 493
 Measured-as-negative intensities, 667
 Measured profile, 505
 as a convolution, 503
 Measurements of lattice parameters
 absolute, 505
 relative, 505
 Mechanical (deformation, glide) twins, 10
 Mechanical properties, 153
 Mechanical twins, 10
 Median, 520
 absolute deviation, 690
 variance of, 520
 Melt-grown crystals, 114
 Melting point, 154
 Membrane proteins, 24
 Mercury iodide detector, 623
 Mercury sulfide chloride, γ -Hg₃S₂Cl₂, 771, 772
 Merohedral point groups, 12
 Meso-octahedral sheet, 767
 Metallic radii, empirical, 774
 Metals
 preparation of specimens, 173
 texture studies, 414
 typical interatomic distances, 774–777
 Methyl methacrylate resin containers, 162
 Metric tensor, 694
 Mezei flipper, 442
 Mica containers, 162
 Mica group, 765, 768–770
 Microanalysis, 54
 quantitative, 410
 Microdensitometer, 618
 Microdiffractometers, 491
 Microdiffractometry, 53
 Microfocus sources, 71
 Microrefractometer, 160
 Microtome, 171
 Microwaves, 190
 Midchord peak, 518
 Midpoint of a single chord, 518
 bias, 520
 variance, 520
 Miller formulae, 5
 Miller indices, 5, 11
 Mimetic twinning, 153
 Mirror cameras, 106
 Mirrors, 37
 for neutrons, 436
 reflection devices, 435
 Misalignment, 506, 531, 535–536
 diffraction, 424
 of electron beam, 424
 Misorientation functions, 414
 Misorientation matrices, 33
 Mixed-layer structures, 760
 Model calculations in SAXS, 103
 Model fitting in SANS, 111
 Modelling of space-group frequencies, 897
 Moderators for neutrons, 431
 Modulated crystal structures, 907–944
 examples, 936
 types defined, 907
 Modulation
 displacive, 907
 occupation, 907, 913
 relations, 941
 Modulation transfer function (MTF), 634
 Moiré topography, 121
 Molecular beams, 189
 Molecular biology, isotopic composition in SANS, 107
 Molecular dipole moment, 725
 Molecular geometry, 812
 Molecular organic structures
 packing in, 897
 space-group distribution of, 905
 Molecular packing, 904
 Molecular scattering factors, 390
 Molecular weight, 93
 Moliere high-energy approximation, 260
 Moment, 679
 Moments of a charge distribution, 716
 Momentum density distributions, 659, 713
 Momentum space, 713
 Monitor methods, 72
 Monitoring circuits, 619
 Monochromatic radiation, θ -2 θ scan, 55
 Monochromatic still exposure, 30
 Monochromator-scan method for diffraction, 85
 Monochromators, 37, 43, 46, 51, 76, 99, 120, 395, 528, 662
 alignment, 46
 angular calibration, 46
 channel-cut, 77, 121, 239
 common types, 77
 comparison of, 433
 crystal, 76
 different diffraction geometries, 43
 diffracted beam, 44, 46
 double-reflection, 239
 focusing, 82
 for neutrons, 432–435
 for X-rays, 236
 graphite, 38, 239, 620, 664–665
 incident-beam, 53
 Johann, 664
 Johansson, 664
 mosaic crystals, 432, 662
 multi-reflection, 239
 perfect-crystal, 39, 443, 663
 pyrolytic graphite, 46, 72
 quartz, 661
 scanning-crystal, 622
 single-reflection, 239
 Monoclinic crystal system, 6, 16
 Monodisperse systems, 91
 Monopole, 716
 Morphological properties, 153
 Morphology, and mounting of single crystals, 164
 Morse approximation, 389
 Mosaic-crystal monochromator, 662
 Mosaic spread, 432
 Mosaicity, 443
 neutron diffraction, 433
 Moseley's law, 76
 Mössbauer radiation, 656
 Mössbauer spectroscopy, 189, 719
 Mott-Bethe formula, 261
 Mounting of specimens, 163
 biological macromolecule single crystals, 165
 polycrystalline specimens, 162
 single crystals, 164
 small organic and inorganic single crystals, 164
 Moving splines, 111
 Multichannel pulse-height analyser, 496
 Multi-component complex, label triangulation, 111
 Multidetector, 82
 Multilayer materials, 171
 Multilayer polarizers, 436
 Multiple-beam methods, 531
 Multiple-crystal techniques, 528–532
 Multiple diffraction, 513
 Multiple-diffraction methods, 526–528
 with counter recording, 526–528
 with photographic recording, 513
 Multiple-diffraction pattern, 527
 indexing, 527
 Multiple-exposure techniques, 514
 Multiple-order reflections (Laue), 27
 Multiple scattering, 661
 deconvolution techniques, 391
 incoherent, 661
 intramolecular, 392
 neutron diffraction, 177
 Poisson distribution, 393
 problems associated with, 392
 Multiple twins, 10
 Multiplicity distribution in Laue diffraction, 27
 Multiplicity factor, 596
 Multipole expansions, 103, 714, 716, 730
 Multipole functions, angle dependence, 583
 Multipole model, 716
 Multi-reflection devices, 121
 Multislice method, 414–416, 425
 programs for, 415
 Multiwire detectors, 82
 Multiwire proportional chamber (MWPC), 627
 Muons, 189
 Muskovite, 771
n-beam Fourier imaging, 422
n-particle density matrix, 713
n-particle wavefunction, 713
 Natural background, definition of, 959
 Near-edge fine structures, 408
 Neighbours, nearest (direct) and next-nearest (indirect), 775
 Net planes, 4
 Neutron Anger camera, 650
 Neutron-beam definition, 431
 Neutron-capture reactions, 644–645

SUBJECT INDEX

- Neutron diffraction, 26
 cross section (tables), 445–461
 energy-dispersive, 87
 Laue, 87
 powder, 82
 preparation of specimens, 177
 scattering lengths (tables), 445–461
 time-of-flight, 87
 time-of-flight, powder, 88
 white-beam, 87
 Neutron polarization, 592
 Neutron powder data, 68
 Rietveld analysis of, 710–712
 Neutron resonance spin echo (NRSE), 443
 Neutron scattering, 591–595
 elastic, 728
 focusing, 443
 form factors, 454–461
 inelastic, in spectroscopy of solids, 391
 magnetic, 591, 726
 monochromators, 443
 nuclear, 593
 polarized, 728
 resolution functions, 443
 scattering factors, 454–461
 Soller collimators, 443
 spectrometers, 444
 Neutron sources
 pulsed spallation, 189
 reactors, 430
 spallation, 87, 430
 Neutron spin, 444
 interaction with electron spin, 725–726
 Neutrons
 absorption coefficients (Table 4.4.6.1), 461
 cold, 105
 faster-than-sound, 657
 films for, 646
 filters, 438
 guide tubes, 432, 435
 moderated, 430
 monochromators, 432
 polarized, 108, 592
 properties, 187
 reflectivity, 126, 433
 reflectometry, 126
 scattering-length densities, 441
 slower-than-sound, 657
 topography, 124
 Next-nearest (indirect) neighbours, 775
 NFZ relation, 761
 NIST (National Institute of Standards and Technology) silicon standard, 495
 NMR (nuclear magnetic resonance), 154, 190
 No-upper-layer-line approximation, 415
 Nodal reflections, 27
 Noise reducer for image processing, 635
 Non-crystalline samples, diffraction from, 24
 Non-crystallographic symmetry elements, 907
 Non-dispersive methods (techniques), 506, 526, 533–534
 Non-linear least squares, 683
 Non-periodic systems, 89
 Non-stochastic effects, 959
 Non-systematic interactions, 81
 Non-uniformity of response, area detectors, 41
 Normal attenuation, 214
 Normal-beam equatorial geometry, 36
 Normal-beam rotation method, 31
 Normal crystal, 908
 Normal equations, 680, 682
 Normal modes of vibration, 653
 Normal probability distribution function, 66, 702
 Normalized spin density, 727
 Notations for close-packed structures, 753, 758
 Nuclear magnetic resonance (NMR), 154, 190
 Nuclear reactors, 430
 Nuclear scattering
 amplitude, 594
 length, bound, 594
 of neutrons, 593
 Nuclear structure factors, 595, 725, 732
 Nuclear Thomson scattering, 242
 Numbers of reciprocal-lattice points within resolution sphere, 28
 Numerical approximations to $f(s)$, 261
 Numerical methods, 685
 Objective-lens defocus, 421
 Oblate ellipsoid of revolution, 94
 Oblique crystal system, 15
 Oblique-texture electron diffraction patterns, 412
 Obliquity, 41
 Occupation modulation, 907, 913
 Octahedral sheet, 767
 Octupole, 716
 OD (order-disorder)
 diffraction pattern, 763
 groupoid families, 761, 763, 765, 773
 layers, 764
 packets, 765
 repeat unit, 764
 structures, 761, 764
 structures, desymmetrization of, 765
 theory, 761
 One-crystal spectrometers, 521–526
 asymmetric (arrangement), 521–522
 symmetric (arrangement), 521–526
 One-dimensional crystal classes, 15, 16
 One-line symbols for Bravais classes, 915, 920
 One-particle reduced density matrix, 726
 Open shell electrons, 727
 Operations in polytypes, 762–763
 Optic modes, 653
 Optical
 activity, 153
 antipodes, 153
 diffractograms, 427
 interferometry, 533–534
 properties, 153, 160
 reflectivity, graphite, 403
 wavelength as a standard, 533
 Optimization (of measurement), 517–520, 526–528, 532–534, 667
 Optimum design of experiments, 74, 702
 Orbital angular momentum, 731
 Orbital magnetism, 731
 Orbital moment, 727
 Orbital momentum, 726
 Orbitals, Slater-type, 584
 Order-disorder (OD)
 diffraction pattern, 763
 groupoid families, 761, 763, 765, 773
 layers, 764
 packets, 765
 repeat unit, 764
 structures, 761, 764
 structures, desymmetrization of, 765
 theory, 761
 Organic compounds
 preparation of specimens for electron diffraction and electron microscopy, 176
 space-group distribution of molecular, 905
 typical interatomic distances, 790–811
 Organometallic compounds
 label triangulation, 111
 typical interatomic distances, 812–896
 Orientated solidification, 176
 Orientation contrast, 113
 Orientation matrix, 516, 535, 537
 determination, 517
 four-circle diffractometer, 516–517
 Orientation of crystals, 134
 Orientation of the lattice relative to the point group, 15
 Oriented texture patterns, 412
 Origin of angular scale
 recovery of, 530
 uncertainty of, 530, 536
 Original profile, 505, 520
 half-width of, 506, 520
 Origins, equivalent, 15
 Orthorhombic crystal system, 6, 16
 Oscillation angle, maximum, 33
 Oscillation photographs processing, 510
 Outer moments, 718–720
 Outlier removal, 813
 Packing
 contact number in, 746–747, 752
 density of, 746
 heterogeneous, defined, 746
 homogeneous, defined, 746
 interpenetrating, 751
 of circles, 746–747, 752
 of ellipses and ellipsoids, 751–752
 of layers, 752–773
 of spheres, 746–751, 752, 904
 stable, 747, 750
 types, tables of, 747–748
 voids in, 750
 Pair-distance distribution function (PDDF), 90
 Pair-production cross sections, 213
 Parafocusing, 47
 Parallax, 41, 624
 Parallel-beam geometry, 54, 663
 Parallel detection, 397
 Parallel-plate counters, 627
 Parallel recording, 639
 Paramagnetism, 154
 Paramagnets, 728
 Parasitic scattering, 661
 Partial coincidence operations, 761
 Partial structure factors in SANS, 112
 Partial wave phase shifts, 389
 Partially stimulated reflections (partials), 34, 39
 Particle(s), 186
 latex, 107
 mass in SANS, 110
 maximum dimension, 102
 parameters of, 91
 shape in SANS, 110
 shape in SAXS, 93
 Particle orientation, fluctuations, 492
 Particle size, 62, 89, 162
 distribution, 111
 Patterson synthesis, 21
 Pauli principle, 412
 Pauling model of hydrous phyllosilicates, 767

SUBJECT INDEX

- PCD (projected charge-density)
approximation, 423
- PDDF (pair-distance distribution function),
90
- Peak
asymmetry, 67
displacements, 518
height, 518
of a reflection, 492
satellite, 75
search, 65
shift, 518
variance, 520
- Peak flux, 431
- Peak-shape function, 710–711
- Peak-to-background ratio, 65, 661
with scintillation counters, 622
- Pearson VII function, 67, 711
- Pendellösung*, 250
- Penetration depth, 58
of X-rays, methods of reducing, 525
- Peptides, standard coordinates, 699
- Per cent point function, 708
- Perfect-crystal analysers, 665
- Perfect-crystal monochromators, 444, 663
- Perfect single crystals, 510, 519
- Persistence length, 93
- Petrographic sections, 171
- Phase analysis, electron diffraction, 412
- Phase diagrams, determination of, 510
- Phase-grating approximation, 260
- Phase identification, 42, 81
from electron-diffraction patterns, 81
- Phase-space analysis, 661
- Phase-space diagrams, 661
- Phase transitions, study of, 509, 522, 525,
529
- Phonon absorption, 656
- Phonons, 261, 653
- Phosphor screens, 634
- Phosphoric acid as etchant, 173
- Phosphors, 630
storage, 635
- Photoabsorption measurements, 406
- Photoconductive layer
amorphous Se–As alloy, 635
lead oxide, 634
X-ray-sensing, 634
- Photo-effect data, theoretical, 221
- Photoelectric absorption, 599
- Photographic emulsions, 640
- Photographic film
graininess, 640
properties of, 640
shrinkage, 498
- Photographic methods
electron diffraction powder pattern, 81
single-crystal, 508–516
single-crystal, classification of, 508
- Photographs
cone-axis, 36
setting (precession), 35
upper-layer (precession), 35
upper-layer (Weissenberg), 35
zero-layer (precession), 35
zero-layer (Weissenberg), 34
- Photomultiplier tube, 619
- Photon energy, 84
- Photon-induced X-ray analysis, 189
- Photon interaction cross sections, tables of,
223–229
- Photon noise, 633
- Photon scattering cross section, 213
- Photons, 186
- Photostimulated luminescence, 635
- Phyllosilicates, 413, 766–771
- Physical aberrations, 493, 493
for XED, 86
- Physical constraints, 715
- Physical properties, relation to crystal
structure, 151–153
- Picture elements (pixels), 634
- Piezoelectricity, 154
- Pinhole cameras
in SANS, 106
in SAXS, 100
- PIX (proton-induced X-ray analysis), 189
- Pixels (picture elements), 634
- Planck's law, 186
- Plane detector recording, 32
- Plane-wave topography, 121
- Plasmas, 191
- Plasmon(s), 261, 403
cross section, 399
dispersion, 398
energies in metals, 397
excitation energy, 660
lifetime, 399
scattering, 657, 661
- Plasticity, 153
- Pleochroism, 153
- Point group(s), 939
arithmetic, 913
arithmetically equivalent, 939
definition of, 945
equivalence class, 939
geometrically equivalent, 939
Laue, 908, 913
merohedral, 12
orientation of the lattice relative to, 15
reducible, 940
- Point lattice, 2
- Point row, 3
- Point-spread factor, 40
- Point-spread function (PSF), 625
- Poisson distribution, 393, 666, 690
difference of two, 666
sum of two, 666
- Poisson statistics, 519
- Poisson's electrostatic equation, 719
- Polarization, 193
dependence, 732
incident neutron, 727
index, 611
neutron, 592
rotation of, 593
vector, 654
- Polarization factor, 51, 596
for XED, 85
- Polarized neutron scattering, 728
- Polarized neutrons, 108, 592
- Polarized radiation, circularly, 734
- Polarizers, multilayer, 435
- Polarizing
filters, 438
microscope, 154
mirrors, 440
neutron guides, 431
- Polishing, 174
- Polycrystalline samples for neutron
diffraction, 177
- Polydisperse systems, 89, 99
- Polymers
isotopic composition in SANS, 107
preparation of specimens for electron
diffraction and electron microscopy, 176
texture studies, 414
- Polypeptides, restraints in refining, 699–700
- Polysynthetic twins, 10
- Polytypes, 754–756, 760–773
basic, 762
families, 761
faults in, 758–760
layer stacking in, 760–773
long-period, 757
maximum degree of order (MDO), 762
mixed-layer structures, 761
regular, 762
rod, 760, 766
simple, 762
standard, 762
turbostratic structures, 761
- Polytypism
definition, 760
layer, 766
oriented texture patterns, 412
rod, 760, 766
- Position-sensitive detectors, 82, 87, 100, 113,
619, 623–633, 664
choice of detectors, 623
detection efficiency, 623–624
detector properties, 623–625
for neutrons, 649, 652
localization of detected photon, 627
photographic film, 623
size and weight, 626
software packages, 633
storage phosphors, 634, 635–638
- Positron annihilation spectroscopy (PAS),
189
- Positrons, 189
- Posterior probability density function, 681
- Potential scattering, 594
- Powder cameras, 70
- Powder diffraction, 42, 664
advantages of synchrotron, 54
combined with Laue photography, 506
electron techniques, 80
methods, basic, 55
neutron techniques, 82
special factors in, 596
standards, 498–499
tilted-beam techniques, 80
- Powder diffraction data, Rietveld analysis of,
710–712
- Powder diffractometry, mathematical theory
of, 518
- Powder methods compared with single-crystal
methods, 506
- Powder-pattern geometry, 80
- Powder-pattern indexing, 541
- Powder-pattern intensities, 80
- Powder patterns
calculation of, 60
computer graphics for, 69
- Powders, correction factor for, 657
- Poynting vector, 119
- Precautions against radiation injury,
958–967
- Precession geometry, 35
setting, 168
- Precision, 490, 492, 497, 501, 707
of parameter estimates, 702

SUBJECT INDEX

- Precision of lattice-spacing determination, 505
 and profile shape, 517–519
 (methods of) increasing, 518, 533–534
 relative, 505
- Preferred orientation, 60, 80, 162, 712
 empirical correction factor, 61
 minimization of, 60
- Preparation
 of crystals, 153
 of specimens for electron diffraction and electron microscopy, 171
 of specimens for neutron diffraction, 177
- Pressure, effect on lattice parameters, study of, 508
- Primary dose limits, 960
- Primary extinction, 609, 610
- Primitive
 crystallographic basis, 2
 reciprocal basis, 2
 unit cell, 2
- Principle of causality, 246
- Prior probability density function, 681
- Probability density function, 681
- Probability distribution function (p.d.f.), 707
- Profile fitting, 65, 492, 710
 computer procedures, 491
 functions, 66, 710
 in oscillation photographs, 510
- Profile parameters, 710
- Projected charge-density (PCD)
 approximation, 423
- Projection matrix, 705, 706
- Projection topograph, 115
- Prolate ellipsoid of revolution, 94
- Promolecule, 714
- Promolecule density, 714
- Propagation function, 415
- Proportional counters, 619
- Protection from ionizing radiation, 962–963
- Proteins
 label triangulation, 111
 restraints in refining, 699–701
- Proton-induced X-ray analysis (PIX), 189
- Pseudo-atom moments, 718
- Pseudo-non-dispersive methods, 506, 526, 528–533
- Pseudo-Voigt function, 67, 711
- Pulse-amplitude discrimination, 73, 620
- Pulse-amplitude distributions, 621
- Pulse-height analyser, 622
- Pulse-height discrimination, 619
- Pulse-height distribution, 626
- Pulsed neutron source, 711
- Pulsed (spallation) neutron source, 87, 189, 430–431
- Pycnometry, 158
- Pyroelectricity, 154
- Pyrolytic graphite, 43, 77, 438, 665
 cross section for neutrons, 439
- Pyrophyllite, 768
- Q*–*Q* (quantile–quantile) plot, 707, 708
- QED corrections, 204, 205
- QR decomposition, 679
- Quadrupole, 716
- Quadrupole moment, 717
- Quality factor (QF), definition of, 959
- Quanta, 186
- Quantile–quantile plot, 707, 708
- Quantitative microanalysis, 410
- Quantum counting efficiency, 621
- Quantum efficiency, 624
- Quartz monochromator, 664
- Quartz twins, 11
- Quasi-Gaussian approximation, 590
- Quasi-Newton methods, 683
- Quasicrystals, 908
- R* factors, 68, 710–711
 dynamical, 427
 weighted, 68
- Racah's algebra, 731
- Radial constraint, 715
- Radial distribution function, 97
- Radiation damage, 166, 417, 626, 630
- Radiation injury
 definition of terms, 958–960
 possible sources, 962–963
 precautions against, 958–967
 regulatory authorities, 964–966
 responsibilities, 960–961
- Radiation protection, 957, 962
- Radiation safety officer, 960
- Radiations used in crystallography
 electromagnetic waves, 186
 particles, 186, 259
- Radioactive samples, 619
- Radioactive sources, 189
- Radio-frequency flipping coil, 728
- Radionuclides, 75, 196
 definition of, 959
- Radiotoxicity, definition of, 959
- Radius of gyration, 91
 of the cross section, 92
 of the thickness, 92
- Radoslovich model, 769
- Raman effect, 153
- Raman scattering, 657, 660
 resonant, 657, 660, 661
- Raman spectroscopy, 189
- Ramsdell notation, 752
- Rank of a lattice, 937
- Rate-meter measurements, 63
- Ratio method
 for powder samples, 509
 for single crystals, 509
- Ratio of lattice spacing to optical wavelength, 533
- Rational twin axis, 10
- Rayleigh criterion, 427
- Rayleigh scattering, 214, 242, 554, 599
- Rayleigh scattering data, theoretical, 221
- RBS (Rutherford backscattering), 189
- Reactors, 430
- Real crystals, 419
- Real solids, 401
- Real structure
 determination, 516, 531
 errors due to, 528
- Receiving slit, 45
 aperture, 53
 width, 48
- Reciprocal cell
 picture of, three-dimensional, 509
 picture of, two-dimensional, 509
 picture of, undeformed, 509
- Reciprocal lattice, 412
 angles, determination, 517
 geometry, 513
 layer lines and crystal setting, 168
 parameters, determination, 517
- Reciprocal lattice
 point, 415
 vector, 3
- Recording counts, fluctuations of, 492
- Recording range, 52
- Rectangular crystal system, 15
- Reducible point groups, 939
- Reference crystal(s), 531–532
- Reference sample in SANS, 109
- Refinement
 least-squares, 503, 505, 510, 517
 of structural parameters, 677
 problems, least-squares, 101
 Rietveld, 56, 82, 541
 Rietveld, using XED, 86
- Reflecting power of a crystal, 590
- Reflection
 angles, 499
 conditions, for a twinned crystal, 13
 conditions, special, 921
 of light, 153
- Reflection electron microscopy (REM), 428
- Reflection high-energy electron diffraction (RHEED), 428
- Reflection-only counting rates, 666
- Reflection specimen, θ – 2θ scan, 44, 53
- Reflection topographs, 113, 114
- Reflection twins, 10, 12
- Reflections
 integrated, 114
 main, 907
 multiple-order (Laue), 27
 nodal, 29
 satellite, 907
 single-order (Laue), 27
- Reflectivity function, 528
- Refraction, 527
 correction for, 492, 505, 523, 536
 effects, 81
- Refractive index, 81, 154, 160, 189, 599–600
 immersion media for measurement of, 160
- Regular polytypes, 762
- Regulatory authorities, 964
- Relative measurements of lattice spacing, 505
- Relative molecular mass in SANS, 110
- Relativistic corrections, 390
- Relativistic effects, 186, 260, 262
- REM (reflection electron microscopy), 428
- Remanent systematic error, testing for, 498
- Repeated twins, 10
- Residual, 707
- Residual map, 714
- Resolution
 in XED, 85
 sphere, 27
- Resolution errors
 detector element, 106
 gravity, 106
 in SANS, 106
 slit, 106
 wavelength, 106
- Resolution functions in neutron scattering, 443
- Resonance scattering, 594
- Resonant Raman scattering, 657, 660, 661
- Restraints in refinement, 691, 693–701
- RHEED (reflection high-energy electron diffraction), 428
- Rho operations, 763
- Rhombohedral crystal system, 8
- Ribosomes, scattering curves from, 111

SUBJECT INDEX

- Rietveld method, 56, 82, 422, 493, 496, 541, 690, 710
 background, 711
 indexing, 711
 peak-shape function, 710–711
 preferred orientation, 712
 problems with, 711
 using XED, 86
- Rigid-motion parameters, 697
 Robust/resistant methods, 689
 Rock minerals, preparation of specimens, 171
 Rocking curves, 37, 39, 188, 662
 double-crystal, 529
 Rod-like particles, 94
 molecular weight, 93
 radial inhomogeneity, 96
 Rod polytypes, 760, 766
 Rotating-anode tubes, 71, 189, 194
 Rotation diagrams, 414
 Rotation geometry setting with moving-crystal methods, 168
 Rotation method, 29
 normal beam, 31
 Rotation of polarization, 593
 Rotation/oscillation geometry, 31
 Rotation twins, 10, 12
 Rotational oscillation (libration), 589
 Rutherford backscattering (RBS), 189
 Rutile, intensity standard, 503
- Sample mean, 813
 Sample median, 813
 Sample standard deviation, 813
 SANS (small-angle neutron scattering), 105, 110
 Satellite peaks, 75
 reflections, 907
 Saticon television camera tubes, 630
 SAXS (small-angle X-ray scattering), 89
 Sayre's equation, 428
 Scale factor, estimation of, 691
 Scanning-crystal monochromator, 622
 Scanning electron microscopy (SEM), 540
 Scanning range, 519–520
 Scanning transmission electron microscope (STEM), 427
 Scanning tunnelling microscope, 428
 Scattering coherent multiple, 661
 Compton, 242, 554, 599, 661
 Delbrück, 242
 diffuse, 261
 elastic, 416
 electron, 259
 fluorescence, 661
 inelastic, 416, 657
 low- Q , 105
 magnetic, 730
 magnetic X-ray, 730
 multiple, 661
 multiple, deconvolution techniques, 393
 multiple, incoherent, 661
 multiple, intramolecular, 392
 multiple, neutron diffraction, 177
 multiple, Poisson distribution, 393
 multiple, problems associated with, 392
 neutrons, magnetic, 591
 neutrons, nuclear, 593
 nuclear and magnetic, 435
 parasitic, 661
- Scattering plasmon, 657, 661
 potential, 594
 Raman, 657
 Rayleigh, 242, 554, 599
 resonance, 594
 resonant Raman, 657, 660, 661
 spin-flip, 591
 thermal diffuse, 416, 653, 655, 657, 661
 Thomson, 733
- Scattering amplitudes, 389
 for electrons, 263–281
 nuclear, 594
- Scattering cross sections coherent, 594
 Compton, 213
 elastic, 213
 elastic differential, 262
 incoherent, 594
 incoherent elastic, 595
 inelastic, 213
 magnetic, 593
 nuclear, 591
 pair-production, 213
 Rayleigh, 213
 total, 213, 594
 total (tables), 223–229
- Scattering factors atomic, 554, 566
 complex, 188, 262
 electron, 188, 259
 for electrons, molecular, 390
 for electrons, partial wave (Table 4.3.3.1), 286–377
 for neutral atoms, 263
 free atoms, 555
 generalized, 565
 hydrogen-atom, 565
 interpolation, 565
 magnetic, 461
 parameterization, 262, 461
 X-ray, Gaussian fits, 261
 X-ray incoherent, 389
- Scattering functions, 89
 incoherent (Table 7.4.3.2), 658
- Scattering intensities calculation of, 104
 neutron, 105
- Scattering-length densities, 105
 match-point, 107
- Scattering lengths, 444
 bound nuclear, 594
 coherent, 594
 density, 105
 density, match-point, 107
 for neutrons, 188, 444
 free, 594
 total, 91
- Scattering surfaces, 656
- Scattering vector, 3, 90
- Scherzer focus, 422, 423, 424, 426
- Schrödinger wave equation, 186, 415, 735
- Scintillation detectors, 619, 642, 664
- Screen menu (CRT) for diffractometer-operation control, 64
- Screenless rotation technique for large-molecule data collection, 169
- Screw correlation tensor, 697
- Secant methods, 683
- Secondary extinction, 609, 611
- Section topograph, 115
- Seemann-Bohlin diffractometers, 495
 Seemann-Bohlin geometry, 43
 Seemann-Bohlin method, 52
 advantages, 53
- Selected-area channelling patterns, 540
- Selected-area diffraction patterns, 428
- Selected-area electron diffraction, 80, 538
- Selection of crystals, 151
- Self-centring slit, 45
- Self-consistent field (Hartree-Fock) method, 243
- SEM (scanning electron microscopy), 540
- Semiconductor crystals, 428
- Semiconductor detectors, 629, 642
- Sensitivity (of lattice-spacing determination) increasing, 505
 (methods of) highest, 531
- Separation plots, structural, 774
- Serial recording, 639
- Serpentine-kaolin group, 766–769
- Setting θ - 2θ , 47
 anti-equi-inclination, 31
 azimuthal, 168
 equi-inclination, 31
 flat cone, 31
 Guinier, 39
 photograph (precession), 35
 precession geometry, 168
 rotation geometry, 168
 stationary crystal, 168
- Setting angles in standard diffractometers, 516
- Shadowing, 189
- Shannon-Jaynes entropy, 691
- Shape function, 520, 523
- Shape of profile affected by collimation, 520
 and precision, 519–521
- Shape transform, 718
- Sheets dioctahedral, 767
 hetero-octahedral, 767
 homo-octahedral, 767
 meso-octahedral, 767
 octahedral, 767
 tetrahedral, 768
 trioctahedral, 767
- Short symbols for superspace groups, 921
- Siegbahn notation, 191
- Siever, definition of, 959
- Sigma symmetry (operations), 763
- Signal-to-noise ratio, 633, 645
- Significance tests, 702
- Silicates (phyllosilicates), 766–771
- Silicon, lattice parameter of, 490, 495, 499
- Silver, lattice parameter of, 499
- Silver behenate reflection angles, 503
- Simple polytypes, 762
- Simulations in SAXS, 103
- Simultaneous reflection, 526
- Single crystal characterization, 525
 Laue diffraction, neutron, 87
 monochromators (at synchrotron), 39
 topography, 114
 XED methods, 87
- Single-crystal methods compared with powder methods, 506
 photographic, 508–516
 with counter recording, 516–533

SUBJECT INDEX

- Single-crystal X-ray techniques, 26, 505–536
 classification of, 25
 Single filters, 78
 Single-order reflections (Laue), 27
 Single-particle scattering, 110
 Single-wire detectors, 82
 Skewness, 586
 Slater determinant, 722
 Slater-type orbitals, 584
 Slits
 antscatter, 45
 design, 45
 self-centring, 45
 Slower-than-sound neutrons, 657
 Small-angle approximation, 80
 Small-angle cameras, 99
 Small-angle neutron scattering (SANS), 105, 110
 Small-angle X-ray scattering (SAXS), 89
 Small angles of incidence, 525
 Small particles
 essential, 56
 line broadening from, 62
 Small spherical crystals, lattice-parameter determination of, 507, 525
 Solid-state detectors, 82, 620, 642, 664
 Solid-state effects, 400
 Solid-state valence-band theory, 415
 Soller collimators, 82, 432, 443
 Soller slits, 46, 56, 82, 494, 521–522
 Solutions, diffraction from, 24
 Somatic effects, 960
 Sound velocity, 656
 Source intensity distribution and size, 73
 Sources of X-radiation, 507
 Space-group frequencies
 statistical modelling of, 897–906
 tables, 905
 Space groups
 and arithmetic crystal class, 15–20
 arranged by arithmetic crystal class, 16
 classification of, 15, 897
 closest-packed, 897
 distribution of molecular organic structures, 897
 enantiomorphous pairs, 20
 for close-packed structures, 755
 frequency of, 15
 impossible, 897
 limitingly close-packed, 897
 magnetic, 591
 one-line symbol, 920
 permissible, 897
 symmetry, 695
 two-line symbol, 921
 Spallation neutron sources, 87, 189, 430–431
 Spark erosion, 174
 Sparse matrices, 685
 Sparse matrix methods, 701
 Spatial distortions, 41, 625, 633
 Spatial non-uniformity, 633
 Special reflection conditions, 921
 for (3+1)-dimensional space groups, 934
 Specific heat, 154
 Specific isotopic labelling, 107
 Specific surface, 93
 Specimen
 aberrations, 48
 absorption, 497, 498
 displacement, 494, 498, 499
 displacement error, correction, 528
 factors, 60
 fluorescence, 43, 78
 focusing circle, 44
 irradiated length, 45
 mounting, 162
 orientation, 44
 preparation, 171, 177, 503
 surface displacement, 48, 499, 503
 transparency, 494, 497, 499
 transparency aberration, 50
 Specimen-tilt and beam-tilt error correction, 524
 Spectral breadth, 189
 Spectral brightness, 197
 Spectral profiles, 48
 Spectral purity, 72
 Spectrometers, 395
 asymmetric, 521–522
 combined (techniques), 531
 double-beam, 531
 double-crystal, 510, 528–530
 one-crystal, 521–526
 stability of, 532
 symmetric, 521–526, 529–531
 time-of-flight, 444
 triple-axis, 444, 531–532
 triple-crystal, 531–532
 Spectroscopy
 electron energy-loss, 391
 infrared, 189
 Raman, 189
 Sphalerite, 754
 Sphere(s), 92, 94
 close-packing, 746, 752, 761
 hollow, 92
 of reflection (Laue sphere), 26
 packing, 747
 Spherical aberration, 421
 Spherical Bessel function, 460, 565, 592
 Spherical harmonic approximation, atom-centred, 714
 Spherical harmonic functions, 581, 714, 722
 Spherical harmonic multipole model, 715
 Spherical symmetry, 103
 Spherically symmetric particles, 96
 Spin
 flipper, 442
 of neutrons, 443
 polarization, 388
 Spin-contrast variation, 108
 Spin density
 analysis of, 713–734
 errors, 729
 Spin-flip processes, 728
 Spin-flip scattering, 591
 Spin-magnetization densities, 725, 727, 731
 Spin-orbit coupling, 727
 Spin-orientation devices, 442
 Spin-polarization effect, 732
 Spin structure factor, 731
 Spin-turn coil (flipper), 442
 Split basis, 944
 Spot size and shape, 37, 39
 Sputter etching, 173
 Sputtered thin films, 173
 Square crystal system, 15
 Square-root technique, convolution, 103
 Square-wave modulation transfer function, 634
 Stability of spectrometers, 532
 Stability of X-ray sources, 72
 Stable packing, 746, 750
 Stacking faults, 754, 762
 fringe patterns, 116
 Stacking sequence, determination of, 757
 Standard basis, 944
 Standard crystal, 507, 531–532
 lattice-parameter determination of, 507
 Standard deviation, 679
 Standard lattice bases, 938
 Standard polytypes, 762
 Standard reference materials, 498
 Standard specimens, 501
 Standard uncertainty, 681, 707
 Standards
 intensity, 500
 powder-diffraction, 498–499
 Static model map, 714
 Stationary-crystal method, 168
 Stationary-phase focus, 422
 Statistical errors of lattice-parameter determination, 505, 519, 523
 Statistical fluctuations, 69, 492, 666
 Statistical modelling, 904
 Statistical significance tests, 702–705
 Statistical validity
 in general, 702–705
 of Rietveld method, 712
 Statistics, 679
 of recorded counts, 519
 Poisson, 519
 STEM (scanning transmission electron microscope), 427
 Step size and count time, 64
 Stereochemical constraints, 698
 Stereographic projection of Kossel pattern, 513
 Stereographic transformation, 29
 Stibivante, 769–772
 Still exposure, monochromatic, 31
 Still photographs for initial crystal setting, 169
 Stochastic effects, 959
 Stopping rules, 684
 Storage phosphors, 623, 635
 Storage rings, 196
 synchrotron-radiation sources, 199
 Strain, measurement of, 510, 516, 529
 Strainmeter, 510
 Straumanis film mounting, 509
 Stress
 internal, 528
 study of, 510, 516, 522
 Strip-chart recordings, 63
 Stroboscopic X-ray topography, 120
 Structural classes, 904
 Structural separation plots, 774
 Structure amplitude, complex, 261
 Structure analysis
 direct, 103
 electron diffraction, 413
 Structure determination of close-packed stackings, 756–758
 Structure factor(s), 590, 941
 determination, 735
 magnetic, 725, 728, 730
 magnetic orbital, 731
 magnetic, unit-cell, 591
 magnetic X-ray, 733
 measurement by electron diffraction, 416
 nuclear, 595, 725, 730
 partial, 112
 SANS, 112

SUBJECT INDEX

- Structure factor(s)
spin, 731
X-ray, 737
- Structure imaging, electron diffraction, 424
- Structure prediction, 897
- Structure refinement, 426
- Student's *t* distribution, 704
- Subfamilies, 769
- Sub-grains, 114
- Sublimed films, 176
- Sulfur, Fermi level, 406
- Superficial layers (see also Epitaxic layers),
study of, 525
- Superlattices, determination of, 525
- Supermirrors, 435
- Superposition structure, 763
- Superspace, 944
embedding, 908
- Superspace groups, 909, 912, 916, 940, 945
(2+1)-dimensional (table), 920
(2+2)-dimensional (table), 921
(3+1)-dimensional (table), 922–934
equivalent, 940
full symbols, 921
short symbols, 921
symbols for, 921
- Superstructure, 919
- Surface diffraction, 24
- Surface of a particle, 93
- Surface plasmons, 403
- Surface-roughness scattering, 108, 128
- Surface structure, 428
- Symmetric arrangement in single-crystal
methods, 509, 521–526, 529–531
- Symmetry
conditions for second cumulant tensors,
695–696
elements, non-crystallographic, 907
enhanced, 13
group, 908
of Patterson synthesis, 21
spherical, 103
- Sympathomorphism, 15, 897
- Synchrotron radiation, 54, 99, 114, 119, 187,
191, 596, 623, 653, 665, 711
camera systems for, 100
determination of wavelength, 495
facilities (for EXAFS), 219
for XED, 84
sources, 38, 198, 495
special applications, 189
spectrum, 197
- Synchrotron X-ray topography, 120
- Systematic errors (see also Aberrations), 490,
492, 501, 653–665, 707
background, 661–665
connected with collimation, 523–524
detection and treatment, 498–499, 707–709
estimation of, 535
in counter-diffractometer methods, 518,
535
in divergent-beam methods, 515
in photographic methods, 508, 515, 535
in single-crystal spectrometers, 521, 522,
523
in the Bond method, 523–525
of wavelength determination, 535
plasmon scattering, 660
Raman scattering, 660–661
reduced experimentally, 512, 515, 521, 526,
528–530
- Systematic errors (see also Aberrations)
reduced by detailed analysis of Kossel
patterns, 512–515
reduced by extrapolation, 505, 535
reduced by least-squares refinement, 517
remanent, 408
specimen displacement, 517, 531
testing for, 498–499
thermal diffuse scattering, 653–657
white radiation, 661–665
- Systematic interactions, 81
- Take-off angle, 74
- Talc-pyrophyllite group, 768–770
- Tangent formula, 428
- Tau operations, 764
- Television area detectors, 630
- Television camera tubes, 632
- TEM (transmission electron microscopy), 171,
428, 540
- Temperature correction, 524
- Temperature dependence of lattice parameters,
study of, 507, 530
- Temperature factor(s), 586
anisotropic, 697
generalized, 586
librational, 724
- Tensors, symmetry of, 695–696
- Tetragonal crystal system, 7, 17
- Tetrahedral sheet, 767
- Texture
axis, 412
basis, 412
fibre, 413
lamellar, 412
patterns, 412
- Theoretical photo-effect data, 221
- Theoretical Rayleigh scattering data, 221
- Thermal diffuse scattering, 415, 653, 656,
661, 711
correction, anisotropic, 655
correction factor, 654
correction factor for thermal neutrons, 656
error, 653
- Thermal effects, error connected with, 515
- Thermal expansion, 154
study of, 510, 516, 522, 525, 529
- Thermal neutron detection, 644–652
detection process, 644–648
detection systems, 649–651
electronic aspects, 648
via gas ionization, 645
via scintillation, 645
- Thermal smearing, 723
- Thermodynamic properties, 154
- Thickness
distance distribution function of, 103
fringes, 735
of crystal (sample), 512, 513
of lamellar particles, 93
- Thin films and thinning, 173
- Thin sections, 171, 174
- Thinning solution, 175
- Thomas–Fermi method, 659
- Thomas–Fermi model, 243
- Thomson formula, 90
- Thomson scattering, 733
by a free electron, 242
- Three-axis spectrometers, 444
- Three-beam fringes, 422
- Three-dimensional crystal classes, 15–20
- Tilt(s)
of beam, 524
of crystals, 530
- Tilt-series reconstruction method, 427
- Time-averaged flux, 431
- Time-constant errors, 492
- Time-of-flight neutron diffraction, 87, 431
- Time-of-flight SANS, 106
- Time-of-flight spectrometers, 444
- Time reversal, 591
- Topography, 113–123, 516, 525–527
detectors suitable for, 634
- Topotaxy, 154
- Total coincidence operations, 761
- Total counting rates, 666
- Total external reflection, 525
- Total scattering cross section, 594
- Total scattering lengths, 91
- Townsend avalanches, 619
- Trace of *S* singularity, 697
- Transformation(s)
compensating, 940
gnomonic, 29
stereographic, 29
twins, 10
- Transition elements, Fermi level, 406
- Transition-radiation X-rays, 192
- Translation, internal, 912
- Translation tensor, 697
- Translations, compensating, 940
- Transmission coefficients, 601
- Transmission electron microscopy (TEM),
428, 540
preparation of specimens, 171
- Transmission factor for XED, 86
- Transmission function, 414, 432
- Transmission geometry, 512, 513, 525
crystal thickness for, 512, 513
- Transmission method, advantage of, 52
- Transmission specimen, θ – 2θ scan, 49
- Transmission topographs, 113, 114, 124
- Transparency aberration, 49
- Traverse topograph, 115
- Triaxial bodies, homogeneous, 92
- Triclinic crystal system, 6
- Tricontadipole, 716
- Trigonal crystal system, 7, 18
- Trigonometric intensity factors, 596
- Trimercury dichloride disulfide, 766,
771–772
- Trioctahedral sheet, 767
- Triple-axis spectrometers, 444, 531–532
- Triple-crystal spectrometers, 531–532
- Triple isotopic replacement, 111
- Triple-reflection scheme, 532
- Truncation level, 518
optimum, 520
- Trust-region methods, 683
- Tungsten
lattice parameter of, 499
reflection angles, 499, 502
- Turbostratic structures, 760
- TV cameras, X-ray-sensitive, 633
- Twin(s)
axis, 10, 11
axis, rational, 10
boundary, 10
Brazil, 11
centre, 10
centred lattice, 11
components, 10

SUBJECT INDEX

- Twin(s)
 cyclic, 10
 Dauphiné, 11
 element, 10, 14
 growth, 10
 index, 11
 interface, 10
 inversion, 10, 12
 lattices, 10
 law, 10
 mechanical (deformation, glide), 10
 mimetic, 153
 multiple, 10
 operation, 10
 plane, 10, 11
 polysynthetic, 10
 primitive lattice, 11
 quartz, 11
 reflection, 10, 12
 repeated, 10
 rotation, 10, 12
 simulated Laue class of, 13
 transformation, 10
- Twinned crystal, reflection conditions, 13
- Twinning, 10
 by merohedry, 12
 by pseudomerohedry, 12
 in polytypes, 762
 reciprocal-space implications, 12
- Two-beam approximation, 80, 260
- Two-circle diffractometers, 517
 matrix formulae, 517
- Two-dimensional crystal classes, 15, 16
- Two-line symbols for Bravais classes, 915, 920
- Ultramicrotomy, 171
- Ultraviolet radiation, 187, 189
- Umweganregung*, 527
- Undulators, 197
- Uniformity of response, 625
- Unit cell
 conventional, 913
 conventional or centred, 2
 magnetic structure factor, 591
 primitive, 2
 volume, 2
- Unsmoothed high-tension supplies, 667
- Upper-layer photographs (precession), 35
- Upper-layer photographs (Weissenberg), 35
- Upper quartile, 813
- V-shaped detector recording, 32
- Valence map, $X - X$, $X - N$, and $X - (X+N)$, 714
- Vanadium, scattering from, 594
- Variable reduction method, 693
- Variance, 679
 of centroid, 520
 of measure of location, 519
 of median, 520
 of peak, 520
 of single midpoint of chord, 520
- Variance-covariance matrices, 680, 692, 707
- Variances of measured intensities (recorded counts), 519
- Variations in cell parameters, 522
- VC (vicinity condition), 763
- VC layers, 765
- VC structures, 765
- Vector(s)
 basis, 944
 energy-flow, 119
 lattice, 2
 module, 907, 937, 944
 Poynting, 119
 reciprocal-lattice, 3
 scattering, 3
- Velocity of sound, 656
- Velocity of the elastic wave, 654
- Vermiculites, 765
- Vertical divergence, 82
- Vertical inclination
 correction for, 522
 of incident beam, 522
 of reflected beam, 522
- Vibrating-string method for density measurement, 158
- Vibration, normal modes, 653
- Vicinity condition (VC), 763
- Viruses, SANS, 106, 111
- Visual estimation, 618
- Voids in close-packed structures, 753
- Voigt function, 67, 711
- Volume
 of a homogeneous particle, 92
 plasmons, 398
- Volumenometry, 158
- Voronoi polyhedron, 774
- Waller-Hartree method, 659
- Wave amplitudes, dynamical, 414
- Wavefunction, 186
- Wavelength calibration, 55
- Wavelength determination, 506, 528, 533
 accuracy of, 526
 errors in, 541
- Wavelength filter, 528
- Wavelength normalization (Laue), 39
- Wavelength problems, 492
- Wavelength selection, 75
 easy, 55
- Wavelength shifts, 197
- Wavelengths
 γ -rays, 187
 determination, 533
 distribution, 506
 errors, 492
 synchrotron radiation, 187
 uncertainty, 536
- X-rays, 187, 191, 200, 201, 206, 209
- Wavevector, 186
- Weak-peak measurement, 65
- Weak-phase-object (WPO) approximation, 423, 427
- Weighted R factors, 68
- Weissenberg camera, setting of single crystals, 168
- Weissenberg diffractometer, 517
- Weissenberg geometry, 34
- White-beam energy-dispersive X-ray diffraction, 622
- White-beam neutron diffraction, 87, 124
- White radiation, 661
 in double-crystal spectrometer, 529
 in lattice-parameter determination, 507, 508, 529
 streaks and crystal setting, 169
 topography, 119
- Whole-powder-pattern fitting, 68
- Wien filter, 396
- Wigglers, 197
- Wigner-Eckart theorem, 727
- Window thinning method, 174
- WPO (weak-phase-object) approximation, 423, 427
- Wurtzite, 754
- Wyckoff positions, 914
- XAES (extended X-ray absorption fine structure), 24, 189, 213–220, 254, 409
 as a short-range-order phenomenon, 214
 data analysis, 217
- XANES (X-ray absorption near-edge structure), 214–220, 258, 403
- XED (X-ray energy-dispersive diffraction), 84
- XPS (X-ray photoemission spectroscopy), 189
- X-ray absorption, 599–612
 X-ray absorption coefficients, 220
 absolute measurement of, 214
 data analysis of EXAFS, 217–218
 experimental techniques, 214
- X-ray absorption near-edge structure (XANES), 214–220, 258, 401
- X-ray absorption spectra, 213–241
- X-ray attenuation coefficients, 220
- X-ray background over a spot, 34
- X-ray beam
 extremely parallel, 532
 highly divergent, 507, 508, 510–516
 in single-crystal techniques, 507
 well collimated, 507, 508, 536
- X-ray diffraction
 detectors for, 618–638
 texture patterns, 412
- X-ray dispersion corrections, 241
- X-ray energies, 236
- X-ray energy-dispersive diffraction (XED), 84
- X-ray generators, 72
- X-ray imaging systems, 633
- X-ray incoherent scattering factors, 389
- X-ray interferometry, 201
 combined with optical interferometry, 533–534
- X-ray levels, 191
- X-ray microanalysis, 82
- X-ray microscopy, 189
- X-ray optics, 37
- X-ray phosphors, 631
- X-ray photoemission spectroscopy (XPS), 189
- X-ray powder techniques, 42–79, 492–503
 aberrations in, 47–50
 energy-dispersive, 58
 filters, 78–79
 focusing geometries, 43
 history, 42–43
 literature, 42–43
 microdiffractometry, 53–54
 monochromators in, 43, 76–78
 parallel-beam geometries, 54
 Seemann-Bohlín geometry, 43, 52–53
 Soller slits in, 50, 56
 specimen fluorescence in, 43
 zero position, 46
- X-ray scattering, 554–590
 magnetic, 733
- X-ray-sensitive TV cameras, 633
- X-ray source(s), 191
 conventional, 37
 in the sample, 510
 laser plasma, 189

SUBJECT INDEX

- X-ray source(s)
on the sample, 510
outside the sample, 510
radioactive, 195
synchrotron, 38, 196
X-ray tube, 193
- X-ray spectra, 71, 74
Bremsstrahlung, 191
- X-ray spectrometers
Bragg, 510
double-crystal, 528
symmetric, 510, 521, 529
triple-crystal, 530
- X-ray techniques, single-crystal, 26
- X-ray topography, 115, 516, 525–527
- X-ray tubes, 71–74, 193
loading, 195
power dissipation in, 195
- X-ray wavelengths, 187, 191, 200–212, 221
conversion factors, 191
in single-crystal methods, 506
- X-rays
hard, 187
properties, 187
soft, 187
special applications, 189
- Z-module, 907
- Zebra patterns, 119
- Zeeman polarizers, 442
- Zero-angle calibration, 494
- Zero-error elimination, 517, 521, 523, 529
- Zero-layer photographs (precession), 35
- Zero-layer photographs (Weissenberg), 34
- Zero line, 415
- Zero-order Laue zone (ZOLZ), 418
- Zero plane, 415
- Zero-point correction, 517
- Zero setting, 528
- Zhdanov notation, 752
- Zinc oxide (intensity standard), 503
- Zinc sulfide, 754
- ZOLZ (zero-order Laue zone), 418
- Zone axis, 3, 10
- Zone equation, 4