
SCIENCE

Index to Volume 190

October–December 1975

Editorial Board

ALFRED BROWN
JAMES F. CROW
HERBERT S. GUTOWSKY
N. BRUCE HANNAY
DONALD KENNEDY
DANIEL E. KOSHLAND, JR.
HANS LANDSBERG
DONALD LINDSLEY

EDWARD NEY
RUTH PATRICK
FRANK PRESS
FRANK W. PUTNAM
MAXINE F. SINGER
ARTHUR M. SQUIRES
RAYMOND H. THOMPSON

Editorial Staff

WILLIAM D. CAREY
Publisher

HANS NUSSBAUM
Business Manager

PHILIP H. ABELSON
Editor

EARL J. SCHERAGO, *Advertising Director*

Published by the

American Association for the Advancement of Science

1515 Massachusetts Avenue, NW, Washington, D.C. 20005

Printed in Richmond, Virginia, by William Byrd Press

Copyright 1975 by the American Association for the Advancement of Science

Issue No.	Date	Pages	Issue No.	Date	Pages
4209	3 October	1-84	4216	21 November	725-824
4210	10 October	85-192	4217	28 November	825-932
4211	17 October	193-316	4218	5 December	933-1016
4212	24 October	317-416	4219	12 December	1017-1140
4213	31 October	417-500	4220	19 December	1141-1240
4214	7 November	501-600	4221	26 December	1241-1328
4215	14 November	601-724			

The names of authors of books reviewed are in SMALL CAPITALS.

A

- Abelson, N. M. and P. H. Abelson: Detlev Bronk (*editorial*), 941
 Abelson, P. H.: Federal intervention in universities (*editorial*); geophysics at the international level (*News and Comment*), 34. *See also* Abelson, N. M.
 Acoustically orienting parasitoids: fly phonotaxis to cricket song, W. Cade, 1312
 Adams, J. A. S., et al.: Wood versus fossil fuel for excess carbon dioxide (*letter*), 1154
 Adams, J. B., et al.: Chemical fractionation of the lunar regolith by impact melting, 380
 Adelson, J.: *book review* of Moral development, 1288
 Addy, N. D. *See* Mattson, W. J.
 Aden, D. *See* Croce, C. M., et al.
 Adenosine 3', 5'-monophosphate in reproducing and differentiated trypanosomes, J. E. Strickler and C. L. Patton, 1110
 Adler, P. N., et al.: Life cycle variants of *Physarum polycephalum* that lack the amoeba stage, 65
 AEI energy policy (*letter*), H. A. Bethe, 1152
 Aerosol chemical parameters and air mass character in the St. Louis region, A. H. Vanderpol et al., 570
 Aerosols and polar temperature, W. L. Hamilton and R. A. Reck, 696
 Affirmative action (*letter*), B. Ortiz de Montellano, 508
 Age and tenure (*letters*), R. B. Seymour and F. Press, 219
 Ahlskog, J. E., et al.: Hypothalamic hyperphagia: dissociation from hyperphagia following destruction of noradrenergic neurons, 399
 Ahmed, M. *See* Yeh, J., et al.
Albugo-like oogonia from the American Carboniferous, B. M. Stidd and K. Cosentino, 1092
 Alces, J. BÉDARD et al. (Eds.), *book review* by R. M. F. S. Sadleir, 550
 ALCOCK, J.: Animal behavior, *book review* of, 1084
 Alcoholic hepatomegaly: accumulation of protein in the liver, E. Baraona et al., 794
 Aldrich, S. R.: Organic farming methods (*letter*), 96
 Alessi, A. A. *See* Yeh, J., et al.
 Allfrey, V. G. *See* Ruiz-Carrillo, A., et al.
 Ameyaw-Akumfi, C., and B. A. Hazlett: Sex recognition in the crayfish *Procambarus clarkii*, 1225
 Amundson, N. R.: *book review* of The mathe-

- matical theory of diffusion and reaction in permeable catalysts, 667
 Anaerobic digestion: the rate-limiting process and the nature of inhibition, C. D. Finney and R. S. Evans II, 1088
 Anbar, M., and G. A. St. John: Formation of negative ions under inverted field ionization conditions, 781
 Anders, E. *See* Lewis, R. S., et al.
 Anders, E., et al.: Extinct superheavy element in the Allende meteorite, 1262
 Anderson, D. W., et al.: Brown pelicans: improved reproduction off the southern California coast, 806
 Anderson, T. W. *See* Fritz, P., et al.
 Andrews, J. T. *See* Barry, R. G., et al.
 Animal behavior, J. ALCOCK, *book review* by D. P. Barash, 1084
 Antelman, S. M. *See* Clark, T. K., et al.
 Antibodies that impair insulin receptor binding in an unusual diabetic syndrome with severe insulin resistance, J. S. Flier et al., 63
 Antibody formation in first and second generation offspring of nutritionally deprived rats, R. K. Chandra, 289
 Apneas during sleep in infants: possible relationship with sudden infant death syndrome, C. Guilleminault et al., 677
 Archaeological atlas of the world, D. WHITEHOUSE and R. WHITEHOUSE, *book review* by G. R. Willey, 551
 Archaeology of Missouri, The, C. H. CHAPMAN, *book review* by D. A. Baerreis, 1194
 ARCYANA: Transform fault and rift valley from bathyscaphe and diving saucer, 108
 Are the data worth owning? (*letter*), W. D. Compton, 834
 Arents, J., et al.: Controversial areas of research (*letters*), 324
 ARIS, R.: The mathematical theory of diffusion and reaction in permeable catalysts, *book review* of, 667
 Armstrong, J. A. *See* Wu, B. C., et al.
 Arrhythmically singing crickets: thermoperiodic reentrainment after bilobectomy, B. Renz and W. Loher, 385
 Artenstein, M. S. *See* Plaut, A. G., et al.
 Aslin, R. N. *See* Banks, M. S., et al.
 Association Affairs: AAAS News, 41, 546, 971; annual meeting, 547, 651, 871, 1079, 1190, 1285
 Asteroid collisional evolution: evidence for a much larger early population, C. R. Chapman and D. R. Davis, 553
 Atmospheric concentrations and inventory of

krypton-85 in 1973, K. Telegadas and G. J. Ferber, 882

Atz, J. W. *See* Smith, C. L., et al.

Auditory fatigue: retrocochlear components, R. Salvi et al., 486

AUSLOOS, P. (Ed.), Interaction between ions and molecules, *book review* of, 878

Auto-shaping in rats to the presentation of another rat predicting food, W. Timberlake and D. L. Grant, 690

Availability of grant applications (*letter*), E. D. Korn, 736

Axonal projections of medial preoptic and anterior hypothalamic neurons, L. C. A. Conrad and D. W. Pfaff, 1112

B

- Bade, E. G. *See* Howe, M. M.
 Bader, H. *See* Hoigné, J.
 Baerreis, D. A.: *book review* of The archaeology of Missouri, 1194
 Baldwin, T. O. *See* Morin, J. G., et al.
 Ball, M. M.: *book review* of The geology of continental margins, 779
 Ballard, R. D., et al.: Manned submersible observations in the FAMOUS area: Mid-Atlantic Ridge, 103
 Baltimore, D. *See* Weissbach, A., et al.
 Banks, M. S., et al.: Sensitive period for the development of human binocular vision, 675
 Bar, R. S. *See* Flier, J. S., et al.
 Baraona, E., et al.: Alcoholic hepatomegaly: accumulation of protein in the liver, 794
 Barash, D. P.: *book review* of Animal behavior and The evolution of behavior, 1084
 Barghoorn, E. S. *See* Knoll, A. H.
 Baron, S. *See* Green, J. A.
 Barr, R. D., et al.: Hemopoietic stem cells in human peripheral blood, 284
 Barrett, A. H., and P. C. Myers: Subcutaneous temperatures: a method of noninvasive sensing, 669
 Barry, R. G., et al.: Continental ice sheets: conditions for growth, 979
 Barton, G. N. *See* McHugh, P. R., et al.
 Bass, N. H. *See* Spector, A. A., et al.
 Bayer, A. E. *See* Faia, M. A., et al.
 Baylink, D. J. *See* Hughes, M. R., et al.
 Beck, W. S., Jr. *See* Puschett, J. B., et al.
 BÉDARD, J., et al. (Eds.), Alces, *book review* of, 550
 Begleiter, H. *See* Donchin, E., et al.
 Behavioral characterization of d- and l-am-

- phetamine: neurochemical implications, D. S. Segal, 475
- Behavioral taxonomy in canids by discriminant function analyses, M. Bekoff *et al.*, 1223
- Bekoff, M., *et al.*: Behavioral taxonomy in canids by discriminant function analyses, 1223
- Bell, R. A., *et al.*: Cation $H_{13}O_6^+$: a short, symmetric hydrogen bond, The, 151
- Bengelsdorf, I. S.: Letter to *Izvestiya* (*letter*), 1152
- Benveniste, R. E., *et al.*: Evolution of type C viral genes: origin of feline leukemia virus, 886
- Beratis, N. G. *See* Pascal, T. A., *et al.*
- BERENBLUM, I.: Carcinogenesis as a biological problem, *book review* of, 373
- Berman, H.: *book review* of Rosalind Franklin and DNA, 665
- Bethe, H. A.: AEI energy policy (*letter*), 1152
- Binaural beats at high frequencies, D. McFadden and E. G. Pasanen, 394
- Binkley, S.: *book review* of Circannual clocks, 876
- Biogenesis of erythropoietin: evidence for pro-erythropoietin in a subcellular fraction of kidney, C. Peschle and M. Condorelli, 910
- Biology of the mouse histocompatibility-2 complex, J. KLEIN, *book review* by K. Ozato, 978
- Bisplinghoff, R. L.: Federal R & D—outmoded management policies (*editorial*), 1045
- Black Ph.D.'s (*letter*), J. M. Jay, 834
- Blake, R., and H. V. B. Hirsch: Deficits in binocular depth perception in cats after alternating monocular deprivation, 1114
- Blakemore, R.: Magnetotactic bacteria, 377
- Blockade of morphine abstinence by Δ^9 -tetrahydrocannabinol, B. Carder *et al.*, 590
- Bloom, F. E. *See* Kebabian, J. W., *et al.*
- Blume, J. A. *See* Schiff, A. J., *et al.*
- Bobbeck, A. H.: *book review* of Magnetic bubbles, 779
- Boden, G., *et al.*: Somatostatin suppresses secretin and pancreatic exocrine secretion, 163
- Bodor, N., *et al.*: Delivery of a quaternary pyridinium salt across the blood-brain barrier by its dihydropyridine derivative, 155
- Boffey, P. M. (*News and Comment*): arms control agency, 1275; coal study by National Science Foundation, 446; energy research, 535; military medical school, 860; nuclear war effects disputed, 248; oil nations and technology, 766; peat as fuel, 1066; radioactive waste site search, 361; reactor safety study, 640; research and budget cutback, 1069; Solar Energy Research Institute, 128, 536; think tank for Congress advances, 1178
- BOFFEY, P. M. The brain bank of America, *book review* of, 665
- Bollum, F. *See* Weissbach, A., *et al.*
- Bone resorption restored in osteopetrotic mice by transplants of normal bone marrow and spleen cells, D. G. Walker, 784
- Borek, E., *et al.*: Model for differentiation based on DNA modifying enzymes, 591
- Boron hydride chemistry, E. MUETTERTIES (Ed.), *book review* by D. S. Matteson, 264
- Borowsky, S. A. *See* Baraona, E., *et al.*
- BOUCOT, A. J.: Evolution and extinction rate controls, *book review* of, 142
- Boulding, K. E.: Truth or power? (*editorial*), 423
- Bourne, H. R. *See* Insel, P. A., *et al.*
- Boyse, E. A. *See* Scheid, M. P., *et al.*
- BRACEWELL, R. N.: The galactic club, *book review* of, 43
- Brain bank of America, The, P. M. BOFFEY, *book review* by N. W. Polsby, 665
- Branton, D., *et al.*: Freeze-etching nomenclature, 54
- Bras, G. *See* Ross, M. H.
- Bray, W.: *book review* of Sixteenth-century Mexico, 374
- Brehm, B. G., and D. Krell: Flavonoid localization in epidermal papillae of flower petals: a specialized adaptation for ultraviolet absorption, 1221
- Brenner, D., *et al.*: Visually evoked magnetic fields of the human brain, 480
- Brew, K. *See* MacGillivray, R. T. A.
- Briggs, D. M. *See* Somes, R. G., Jr., *et al.*
- Brill, S. *See* Leehey, S. C., *et al.*
- Bringing the Green Revolution to the shifting cultivator, D. J. Greenland, 841
- Briscoe, A. M.: NIH committee vacancies (*letter*), 938
- Brockman, G. F.: Stratigraphic correlation, 1116
- Broenkow, W. W. *See* Martin, J. H.
- BROMAN, S. H., *et al.*: Preschool IQ, *book review* of, 548
- Bronner, F. *See* Freund, T.
- Brooks, A. L.: Chromosome damage in liver cells from low dose rate alpha, beta, and gamma irradiation: derivation of RBE, 1090
- Brower, L. P.: *book review* of Coevolution of animals and plants, 455
- Brown, D. W. *See* Jensen, C. E., *et al.*
- BROWN, J. L.: The evolution of behavior, *book review* of, 1084
- Brown, J. W. (*AAAS*): Chicano and native American scientists, 546; Who are the handicapped scientists, 546
- Brown, L. R.: The world food prospect, 1053
- Brown pelicans: improved reproduction off the southern California coast, D. W. Anderson *et al.*, 806
- Brown, W. S. *See* Galbraith, G. C., *et al.*
- Broyles, R. H., and M. J. Deutsch: Differentiation of red blood cells in vitro, 471
- Bruce, M. E. *See* Wiśniewski, H. M., *et al.*
- Brun, R. B. *See* Wabl, M. R., *et al.*
- Brumbaugh, P. F. *See* Hughes, M. R., *et al.*
- Bryan, W. B. *See* Ballard, R. D., *et al.*
- Brzosko, W. J.: Hepatitis B vaccine (*letter*), 510
- Buchsbaum, M.: *book review* of Experimental approaches to psychopathology, 46
- Budget priorities: science a big loser? (*editorial*), W. D. Carey, 739
- Buggy, J., *et al.*: Ventricular obstruction: effect on drinking induced by intracranial injection of angiotensin, 72
- BULLIET, R. W. (Ed.): The camel and the wheel, *book review* of, 1289
- Bullivant, S. *See* Branton, D., *et al.*
- Bullock, B. *See* McLachlan, J. A., *et al.*
- BURCHFIELD, J. D., Lord Kelvin and the age of the earth, *book review* of, 1193
- Burgers, J. M. *See* Richmond, R. C.
- BURK, C. A., and C. L. DRAKE (Eds.): The geology of continental margins, *book review* of, 779
- BURNETT, J. H.: Mycogenetics, *book review* of, 550
- Burton, H. *See* Jones, E. G., *et al.*
- BURTON, J. J. *See* NORWICK, A. S.
- Businger, J. A. *See* Fleagle, R. G.
- Buzney, S. M., *et al.*: Retinal capillaries: proliferation of mural cells in vitro, 985
- C
- Cachard, A. *See* De Maeyer-Guignard, J., *et al.*
- Cade, W.: Acoustically orienting parasitoids: fly phonotaxis to cricket song, 1312
- Cadmium in plankton: elevated concentrations off Baja California, J. H. Martin and W. W. Broenkow, 884
- Caggiula, A. R. *See* Clark, T. K., *et al.*
- Cairns, T. L. *See* Rowland, F. S., *et al.*
- Calcium ion distribution in cytoplasm visualized by aequorin: diffusion in cytosol restricted by energized sequestering, B. Rose and W. R. Loewenstein, 1204
- Camel and the wheel, The, R. W. BULLIET (Ed.), *book review* by G. R. Garthwaite, 1289
- Camhi, J. M., *et al.*: Lost opportunity (*letter*), 422
- Canfield, C. J. *See* Trenholme, G. M., *et al.*
- Capra, J. D. *See* Plaut, A. G., *et al.*
- Carcinogenesis as a biological problem, I. BERENBLUM, *book review* by M. Mizell, 373
- Carder, B., *et al.*: Blockade of morphine abstinence by Δ^9 -tetrahydrocannabinol, 590
- Cardinale, G. *See* Ooshima, A., *et al.*
- Carey, M., and V. Nolan, Jr.: Polygyny in indigo buntings: a hypothesis tested, 1296
- Carey, W. D.: Budget priorities: science a big loser? (*editorial*), 739
- CARLQUIST, S.: Ecological strategies of xylem evolution, *book review* of, 45
- Carlson, K. R. *See* Eibergen, R. D.
- Carroll, M. E. *See* Sessions, G. R., *et al.*
- Carsey, F. D. *See* Vanderpol, A. H., *et al.*
- Carson, P. E. *See* Trenholme, G. M., *et al.*
- Carter, L. J. (*News and Comment*): Alaskan gas pipeline debate, 362; icebergs and oil tankers, 641; Kleppe to Interior Department, 134; Mosher to retire, 1276; nuclear energy study by the National Academy of Sciences, 961; Pauling gets Medal of Science, 32; pesticide control stays at Environmental Protection Agency, 255; Red River Dam project killed, 36; SST study and deception, 861
- CARTER, L. J. The Florida experience, *book review* of, 1085
- Casagrande, J., and M. C. Pike: Reduced incidence of spontaneous tumors: another statistical analysis, 808
- Casida, J. E. *See* Proctor, N. H.
- Catalysis of NO + CO, J. A. Kaduk and J. A. Ibers, 592
- Cation $H_{13}O_6^+$: a short, symmetric hydrogen bond, The, R. A. Bell *et al.*, 151
- Cell patterning, *book review* by M. A. Russell, 141
- Century of zoology at the British Museum, A. A. E. GUNTHER, *book review* by P. A. Gerstner, 43
- Chaisson, E. J.: *book review* of The galactic club, 43
- Chalupa, L. M., *et al.*: Response plasticity of lateral geniculate neurons during and after pairing of auditory and visual stimuli, 290
- Chameides, W. L., and J. C. G. Walker: Stratospheric ozone: the possible effects of tropospheric-stratospheric feedback, 1294
- Chandra, R. K.: Antibody formation in first and second generation offspring of nutritionally deprived rats, 289
- Chang, J. P. *See* Lin, C.-T.
- Changes in the intensity and pleasantness of human vaginal odors during the menstrual cycle, R. L. Doty *et al.*, 1316
- CHAPMAN, C. H.: The archaeology of Missouri, *book review* of, 1194
- Chapman, C. R., and D. R. Davis: Asteroid collisional evolution: evidence for a much larger early population, 553
- Charette, M. P. *See* Adams, J. B., *et al.*
- Charging for radioactive emissions, R. Wilson, 460
- Charlson, R. J. *See* Vanderpol, A. H., *et al.*
- Chemical fractionation of the lunar regolith by impact melting, J. B. Adams *et al.*, 380
- Chen, K., *et al.*: Fraction 1 protein and the origin of polyploid wheats, 1304
- Chen, S.-N., *et al.*: Fuel formation from aqueous ferric bromide by photolysis in the visible, 879
- Chesney, G. L. *See* Galbraith, G. C., *et al.*
- Chesters, G., and J. M. Harkin: *book review* of Soil components, 456
- Chicano and native American scientists meet (*AAAS*), J. W. Brown, 546
- Chinnery, M. A., and R. G. North: The frequency of very large earthquakes, 1197
- Cholesterol in eggs (*letter*), R. G. Somes, Jr., *et al.*, 737
- Chow, K. L. *See* Grobstein, P.
- Christensen, H. A. *See* Herrer, A.
- Christoph, G. G. *See* Bell, R. A., *et al.*
- Chromosome damage in liver cells from low dose rate alpha, beta, and gamma irradiation: derivation of RBE, A. L. Brooks, 1090
- Chytil, F. *See* Ong, D. E., *et al.*
- CIN, M. D. *See* CONRAD, M., *et al.*
- Circadian periodicity in *Neurospora*: alteration by inhibitors of cyclic AMP phosphodiesterase, J. F. Feldman, 789
- Circannual clocks, E. T. PENGELEY (Ed.), *book review* by S. Binkley, 876
- Clades versus clones in evolution: why we have sex, S. M. Stanley, 382
- Clark, T. K., *et al.*: Sexual inhibition is reduced by rostral midbrain lesions in the male rat, 169
- Clemens, T. L. *See* Hill, R. N., *et al.*
- Clinical engineering—the problems and the promise, J. B. Oakes, 239
- Cochlear tuning properties: concurrent basilar membrane and single nerve fiber measurements, E. F. Evans and J. P. Wilson, 1218
- Coevolution of animals and plants, L. E. GILBERT and P. H. RAVEN (Eds.), *book review* by L. P. Brower, 455

INDEX TO VOLUME 190

- Coffino, P. *See* Insel, P. A., *et al.*
 Cognitive views of human motivation, B. WEINER (Ed.), *book review* by E. E. Jones, 976
 Cohen, L. H., *et al.*: Stage-specific switches in histone synthesis during embryogenesis of the sea urchin, 994
 Collagen biosynthesis in blood vessels of brain and other tissues of the hypertensive rat, A. Ooshima *et al.*, 898
 Collins, D. M., *et al.*: Protein crystal structures: quicker, cheaper approaches, 1047
 Commissural and cortico-cortical "columns" in the somatic sensory cortex of primates, E. G. Jones *et al.*, 572
 Communication Department plans seminars (*AAAS*), E. S. Kwako, 41
 Complement-mediated bactericidal system: evidence for a new pathway of complement action, S. C. Moreau and R. C. Skarnes, 278
 Composition of atmospheric particulate matter from the eruption of Heimaey, Iceland, E. J. Mroz and W. H. Zoller, 461
 Compound eye and vision of insects, The, G. A. HORRIDGE (Ed.), *book review* by T. H. Goldsmith, 778
 Compton, W. D.: Are the data worth owning? (*letter*), 834
 Condorelli, M. *See* Peschle, C.
 Congressional fellows (*letter*), T. E. Mann, 330
 Conrad, L. C. A., and D. W. Pfaff: Axonal projections of medical preoptic and anterior hypothalamic neurons, 1112
 CONRAD, M., *et al.* (Eds.), Physics and mathematics of the nervous system, *book review* of, 875
 Continental ice sheets: conditions for growth, R. G. Barry *et al.*, 979
 Controversial areas of research (*letters*), J. Arents *et al.*, 324
 Controversy over peer review, The, T. Gustafson, 1060
 Cornell, H. *See* Dritschilo, W., *et al.*
 CORNING, W. C., *et al.* (Eds.), Invertebrate learning, *book review* of, 371
 Cortical effect of early selective exposure to diagonal lines, A. G. Leventhal and H. V. B. Hirsch, 902
 Cosentino, K. *See* Stidd, B. M.
 Cotter, S. M. *See* Essex, M., *et al.*
 Cotton, F. A. *See* Collins, D. M., *et al.*
Covers: cerebral cortex of monkey (7 Nov.); difference map (10 Oct.); dual channel flow-through electrode (17 Oct.); "face" (19 Dec.); polar projections of the Northern and Southern hemispheres (31 Oct.); scientists collecting plankton samples (28 Nov.); sediments of glacial Lake Hitchcock (3 Oct.); separation of domains in hydrated bilayer of cholesterol and dipalmitoyl lecithin mixture (24 Oct.); space community (5 Dec.); terminal phase male of the bluehead wrasse (*Thalassoma bifasciatum*) (14 Nov.); worker ants (21 Nov.); tripeptide and alpha-carbon positions (12 Dec.); vacuoles from flower petals from two *Tulipa* cultivars (26 Dec.)
 Covert, D. S. *See* Vanderpol, A. H., *et al.*
 Cox, W. M. *See* Hoffman, A. J., *et al.*
 Crawford, J. M., *et al.*: Minor salivary glands as a major source of secretory immunoglobulin A in the human oral cavity, 1206
 Croce, C. M., *et al.*: Tumorigenicity of mouse-human diploid hybrids in nude mice, 1200
 Cross-cultural differences in simple taste preferences, H. W. Moskowitz *et al.*, 1217
 Cudkowicz, G. *See* Shearer, G. M.
 Culliton, B. J. (*News and Comment*): advisory committees at the National Institutes of Health, 443; amniocentesis, 537; antiabortionists challenge the March of Dimes, 538; death with dignity bills, 1272; fetal research, 251; Habitat and U.N. conference, 1181; Haemmerli affair, 1271; institute directors at NIH, 36, 449; National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research, 252; tobacco subsidy, 365; Vancouver votes against Habitat, 1182
 Curlin, J. W.: Mutatis mutandis: Congress, science, and law (*editorial*), 839
 Curran, T. C. *See* Hoffman, A. J., *et al.*
- Cyclic AMP-dependent protein kinase: pivotal role in regulation of enzyme induction and growth, P. A. Insel *et al.*, 896
 Cyclic guanosine monophosphate and cellular growth, Z. Miller *et al.*, 1213
- D**
- Daly, H. V.: *book review* of Insects, science, and society, 1290
 Damadian, R. *See* Zaner, K. S.
 Darge, J. G. *See* Stevens, R., *et al.*
 Dates for the middle stone age of East Africa: a discussion, C. E. Stearns, 809
 Davidow, L. S. *See* Adler, P. N., *et al.*
 Davidson, R. J. *See* Schwartz, G. E., *et al.*
 Davis, D. R. *See* Chapman, C. R.
 Davis, R. E. *See* Willcott, M. R., III
 Davis, R. H.: *book review* of Mycogenetics, 550
 Deckelbaum, R. J., *et al.*: Thermal transitions in human plasma low density lipoproteins, 392
 Deficits in binocular depth perception in cats after alternating monocular deprivation, R. Blake and H. V. B. Hirsch, 1114
 Deitchman, S. J. *See* Walsh, J. B., *et al.*
 Delayed-type hypersensitivity to sheep red blood cells: inhibition of sensitization by interferon, J. De Maeyer-Guignard *et al.*, 574
 Delivery of a quaternary pyridinium salt across the blood-brain barrier by its dihydropyridine derivative, N. Bodor *et al.*, 155
 DeLuca, H. F. *See* Holick, M. F., *et al.*
 De Maeyer, E. *See* De Maeyer-Guignard, J., *et al.*
 De Maeyer-Guignard, J., *et al.*: Delayed-type hypersensitivity to sheep red blood cells: inhibition of sensitization by interferon, 574
 Dement, W. C. *See* Guilleminault, C., *et al.*
 Deoxycorticosterone-adenine interactions in a crystalline complex, C. M. Weeks *et al.*, 1096
 DE PALMA, D. J., and J. M. FOLEY (Eds.), Moral development, *book review* of, 1288
 Desjardins, C. *See* Turek, F. W., *et al.*
 Desjardins, R. E. *See* Trenholme, G. M., *et al.*
 Desor, J. A., *et al.*: Preferences for sweet and salty in 9- to 15-year-old and adult humans, 686
 Detection of an antigen related to Mason-Pfizer virus in malignant human breast tumors, J. Yeh *et al.*, 583
 Determination of molecular conformation in solution, M. R. Willcott, III, and R. E. Davis, 850
 Detlev Bronk (*editorial*), N. M. Abelson and P. H. Abelson, 941
 Deutsch, M. J. *See* Broyles, R. H.
 Developmental aspects of carcinogenesis and immunity, T. J. KING (Ed.), *book review* by M. Mizell, 373
 Devor, M.: Neuroplasticity in the sparing or deterioration of function after early olfactory tract lesion, 998
 Dewar, M. J. S. *See* Halgren, T. A., *et al.*
 Dewesse, L. R. *See* Anderson, D. W., *et al.*
 Dewsbury, D. A.: Diversity and adaptation in rodent copulatory behavior, 947
 DI BARTOLO, B., and D. PACHECO (Eds.), Optical properties of ions in solids, *book review* of, 780
 Dichter, M. A., *et al.*: Identification of neurons in cultures, 489
 Dickman, Z., and C. H. Spilman: Prostaglandins in rabbit blastocysts, 997
 Differential fluorescent staining of human chromosomes with daunomycin and adriamycin—the D-bands, C. C. Lin and J. H. van de Sande, 61
 Differentiation of erythroleukemic cells in the presence of inhibitors of DNA synthesis, A. Leder *et al.*, 893
 Differentiation of red blood cells in vitro, R. H. Broyles and M. J. Deutsch, 471
 Differentiation of T cells in nude mice, M. P. Scheid *et al.*, 1211
 Diffusion in solids, A. S. NOWICK and J. J. BURTON (Eds.), *book review* by F. Seitz, 877
 Direct observation of domains in wet lipid bilayers, S. W. Hui and D. F. Parsons, 383
- Direction finding by hornets under gravitational and centrifugal forces, J. Ishay and D. Sadeh, 802
 DiScala, V. A. *See* Kachadorian, W. A., *et al.*
 Diversity and adaptation in rodent copulatory behavior, D. A. Dewsbury, 947
 Dole, M., *et al.*: Hyperbaric hydrogen therapy: a possible treatment for cancer, 152
 Donchin, E., *et al.*: On evoked potentials, cognition, and memory, 1004
 Doty, R. L., *et al.*: Changes in the intensity and pleasantness of human vaginal odors during the menstrual cycle, 1316
 Dowling, J. N. *See* Wu, B. C., *et al.*
 Downes, J. A.: *book review* of Surtsey, 877
 Drachman, D. B. *See* Toyka, K. V., *et al.*
 DRAKE, C. L. *See* BURK, C. A.
 Dritschilo, W. *See* Pimentel, D., *et al.*
 Dritschilo, W., *et al.*: Insular biogeography: of mice and mites, 467
 Dru, D. *See* Lewis, M. E., *et al.*
 Duax, W. L. *See* Weeks, C. M., *et al.*
 Dunlop, D. J. *See* McWilliams, M. O.
 DuPasquier, L. *See* Wabl, M. R., *et al.*
 Durie, B. G. M., and S. E. Salmon: High speed scintillation autoradiography, 1093
 Dutky, S. R. *See* Kaplanis, J. N., *et al.*
 DYAL, J. A. *See* CORNING, W. C., *et al.*
 Dyskinesias elicited by methamphetamine: susceptibility of former methadone-consuming monkeys, R. D. Eibergen and K. R. Carlson, 588
- E**
- Earthquake damage (*letters*), A. J. Schiff *et al.*, 736
 Earthwatch, C. E. Jensen *et al.*, 432
 Eckhart, W. (*Research News*): The 1975 Nobel Prize for physiology or medicine, 650
 Eckland, B. K.: *book review* of Race differences in intelligence, 775
 Ecological diversity, E. C. PIELOU, *book review* by R. M. May, 1086
 Ecological strategies of xylem evolution, S. CARLQUIST, *book review* by J. Kummerow, 45
 Edelman, I. *See* Simon, E. J., *et al.*
 Edelson, B. I.: Satellite communications—a benefit realized (*editorial*), 333
 Edgecomb, W. G. *See* Anderson, D. W., *et al.*
Editorials: Budget priorities: science a big loser?, 739; Detlev Bronk, 941; Federal intervention in universities, 221; Federal R & D—outmoded management policies, 1045; Grade inflation, 101; Higher education: who needs it?, 513; International Women's Year, 1249; Mutatis mutandis: Congress, science, and law, 839; Peer review and the structure of science, 617; Satellite communications—a benefit realized, 333; Science and affirmative action, 1161; Support of basic research, 13; Truth or power?, 423
 EDMONDSON, M. S. (Ed.), Sixteenth-century Mexico, *book review* of, 374
 Effects of long-term corn consumption on brain serotonin and the response to electric shock, L. D. Lytle *et al.*, 692
 Eibergen, R. D., and K. R. Carlson: Dyskinesias elicited by methamphetamine: susceptibility of former methadone-consuming monkeys, 558
 Eisenberg, R. S.: *book review* of Electric current flow in excitable cells, 1087
 Ejaculatory pattern in female rats without androgen treatment, D. E. Emery and B. D. Sachs, 484
 Electric current flow in excitable cells, J. J. B. JACK *et al.*, *book review* by R. S. Eisenberg, 1087
 Electron microscopy of albumin synthesis, C.-T. Lin and J. P. Chang, 465
 Electrophysiological correlates of meaning: vocalization artifact, G. C. Galbraith *et al.*, 292
 Elephants and their habitats, R. M. LAWS *et al.*, *book review* by G. B. Schaller, 263
 Eliel, E. L., and H. S. Mosher (*Research News*): The 1975 Nobel Prize for chemistry, 772
 Emery, D. E., and B. D. Sachs: Ejaculatory pattern in female rats without androgen treatment, 484

- Emmerich, W.: *book review* of The psychology of sex differences, 140
 Enea, V., and N. D. Zinder: Guanidinium-CsCl density gradients for isopycnic analysis of nucleic acids, 584
 Enemy specification in the alarm-recruitment system of an ant, E. O. Wilson, 798
 Energy and land constraints in food protein production, D. Pimentel *et al.*, 754
 Engel, G. L.: *book review* of Masked depression, The psychology of depression, and Somatic manifestations of depressive disorders, 453
 Enhancement of mouse cytomegalovirus infection during host-versus-graft reaction, B. C. Wu *et al.*, 56
 EPA's role in ambient air quality monitoring, A. J. Hoffman *et al.*, 243
 Erratum (*letter*), 836
 Essa-Koumar, N. *See* Boden, G., *et al.*
 Essex, M., *et al.*: Immunosurveillance of naturally occurring feline leukemia, 790
 Estrogen target sites in the brain of the chick embryo, M. C. Martinez-Vargas *et al.*, 1307
 Etzioni, A.: Grade inflation (*editorial*), 101
 Evans, D. L.: Mirror making (*letter*), 737
 Evans, E. F., and J. P. Wilson: Cochlear tuning properties: concurrent basilar membrane and single nerve fiber measurements, 1218
 Evans, R. S., II. *See* Finney, C. D.
 Evolution and extinction rate controls, A. J. BOUCOT, *book review* by J. W. Valentine, 142
 Evolution of behavior, The, J. L. BROWN, *book review* by D. P. Barash, 1084
 Evolution of type C viral genes: origin of feline leukemia virus, R. E. Benveniste *et al.*, 886
 Evolving strategic arms and the technologist, M. R. Gustavson, 955
 Excess bladder cancer in beauticians? (*letter*), J. Menkart, 96
 Exocrine pancreas: evidence for topographic partition of secretory function, F. Malaisse-Lagae *et al.*, 795
 Experimental approaches to psychopathology, M. L. KIETZMAN *et al.* (Eds.), *book review* by M. Buchsbaum, 46
 Exploratory concepts in muscular dystrophy II, A. T. MILHORAT (Ed.), *book review* by L. P. Rowland, 549
 Exploratory journey out of the ecliptic plane, D. E. Page, 845
 Extinct superheavy element in the Allende meteorite, E. Anders *et al.*, 1262
- F**
- Fajia, M. A., and A. E. Bayer: Sex differentials in academic salaries (*letters*), 1154
 Fanconi, B., and L. Finegold: Vibrational states of the biopolymer polyglycine II: theory and experiment, 458
 Fanguy, R. C. *See* Somes, R. G., Jr., *et al.*
 Farber, P., *et al.*: Leukemia virus-induced immunosuppression: scanning electron microscopy of infected spleen cells, 469
 Fatty acids, platelets, and microcirculatory obstruction, A. A. Spector *et al.*, 490
 Federal intervention in universities (*editorial*), P. H. Abelson, 221
 Federal R & D—outmoded management policies (*editorial*), R. L. Bisplinghoff, 1045
 Feinberg, G.: *book review* of Theories and experiments in high-energy physics, 1196
 Feldman, J. F.: Circadian periodicity in *Neurospora* alteration by inhibitors of cyclic AMP phosphodiesterase, 789
 Feldman, M. W., and Lewontin, R. C.: The heritability hang-up, 1163
 Female of the species, M. K. MARTIN and B. VOORHIES, *book review* by J. Shapiro, 874
 Ferber, G. J. *See* Telegadas, K.
 Feshbach, H. (*Research News*): The 1975 Nobel Prize for physics, 868
 Fetal blood-typing (*letter*), J. P. Gusdon, Jr., 938
 Ficken, M. S. *See* Planck, R. J., *et al.*
 Ficken, R. W. *See* Planck, R. J., *et al.*
 Fife, W. P. *See* Dole, M., *et al.*
 Figurski, D. *See* Meyers, R., *et al.*
 Finegold, L. *See* Fanconi, B.
- Finney, C. D., and R. S. Evans II: Anaerobic digestion: the rate-limiting process and the nature of inhibition, 1088
 First mass media intern program ends (*AAAS*), W. Weisman-Dermer, 42
 Fisher, A. E. *See* Buggy, J., *et al.*
 Fisher, K. A.: "Half" membrane enrichment: verification by electron microscopy, 983
 Fisher, L. *See* Lytle, L. D., *et al.*
 Flavonoid localization in epidermal papillae of flower petals: a specialized adaptation for ultraviolet absorption, B. G. Brehm and D. Krell, 1221
 Fleagle, R. G., and J. A. Businger: The "greenhouse effect" (*letter*), 1042
 Fleet, M. E.: Wurtzite: long-period polytypes in disordered 2H crystals, 885
 Flier, J. S., *et al.*: Antibodies that impair insulin receptor binding in an unusual diabetic syndrome with severe insulin resistance, 63
 Flooding frequency of hypersaline coastal environments determined by orbital imagery: geographic implications, S. P. Vonder Haar and D. S. Gorsline, 147
 Florida experience, The, L. J. CARTER, *book review* by P. R. Jutro, 1085
 Flowers found with Shanidar IV, a Neanderthal burial in Iraq, The, A. Leroi-Gourhan, 562
 FOLEY, J. M. *See* DE PALMA, D. J.
 FORBES, E. G.: Greenwich Observatory, vol. 1, *book review* of, 1193
 Ford, M. *See* Doty, R. L., *et al.*
 Formation of negative ions under inverted field ionization conditions, M. Anbar and G. A. St. John, 781
 Food preference and length of life, M. H. Ross and G. Bras, 165
 Fossils and the mosaic nature of human evolution, H. M. McHenry, 425
 Fraction I protein and the origin of polyploid wheats, K. Chen *et al.*, 1304
 Francis Place and the early history of the Greenwich Observatory, D. HOWSE, *book review* by D. J. Warner, 1193
 Frank, R. N. *See* Buzney, S. M., *et al.*
 Fraser, H. *See* Wiśniewski, H. M., *et al.*
 Freeze-etching nomenclature, D. Branton *et al.*, 54
 Frequency of very large earthquakes, The, M. A. Chinnery and R. G. North, 1197
 Freund, T., and F. Bronner: Stimulation in vitro by 1,25-dihydroxy-vitamin D₃ of intestinal cell calcium uptake and calcium binding protein, 1300
 FRIDRIKSSON, S., Surtsey, *book review* of, 877
 Friedman, E. *See* Carder, B., *et al.*
 Friedman H. *See* Farber, P., *et al.*
 FRIEDMAN, R. J., and M. M. KATZ (Eds.), The psychology of depression, *book review* of, 453
 Frischer, H. *See* Trenholme, G. M., *et al.*
 Fritz, P., *et al.*: Late-Quaternary climatic trends and history of Lake Erie from stable isotope studies, 267
 Froneczek, F. R. *See* Bell, R. A., *et al.*
 Frontiers of science and our expectations (*AAAS*), A. Herschman, 1079
 Fuel formation from aqueous ferric bromide by photolysis in the visible. S.-N. Chen *et al.*, 879
 Fuller, G. *See* Ooshima, A., *et al.*
 Fung, B. M.: Orientation of water in striated frog muscle, 800
 Furlow, T. W., Jr. *See* Spector, A. A., *et al.*
- G**
- Gaetani, G. D. *See* Kirkman, H. N., *et al.*
 Gainer, H. *See* Straus, E., *et al.*
 Galactic club, The, R. N. BRACEWELL, *book review* by E. J. Chaisson, 43
 Galbraith, G. C., *et al.*: Electrophysiological correlates of meaning: vocalization artifact, 292
 Galbraith, M. N. *See* Kaplanis, J. N., *et al.*
 Galilean satellites and Jovian energetic particles, D. H. Gross, 564
 Gallagher, B. *See* Holick, M. F., *et al.*
 Gallo, M. *See* Miller, A., *et al.*
 Gallo, R. *See* Weissbach, A., *et al.*
- Ganong, W. F.: *book review* of Neurosecretion, 44
 Garb, S.: Research and public funds (*letter*), 834
 Garthwaite, G. R.: *book review* of The camel and the wheel, 1289
 Garver, D. L.: *book review* of The psychobiology of depression, 977
 Gaul, G. E. *See* Pascal, T. A., *et al.*
 Geiger, G., and T. Poggio: Müller-Lyer figure and the fly, The, 479
 Gelperin, A.: *book review* of Invertebrate learning, 371
 Genetic control of chloroform toxicity in mice, R. N. Hill *et al.*, 159
 Gentry, R. L. *See* Kooyman, G. L., *et al.*
 Geology of continental margins, The, C. A. BURK and C. L. DRAKE (Eds.), *book review* by M. M. Ball, 779
 George, P. K. *See* Deckelbaum, R. J., *et al.*
 Geothermal energy production (*letter*), W. F. Libby, 1246
 Gerald, P. S. *See* Walzer, S.
 Gershoff, A. *See* Rosencwaig, A.
 Gershon, S. *See* Carder, B., *et al.*
 Gerstner, P. A.: *book review* of A century of zoology at the British Museum, 43
 GIACCONI, R., and H. GURSKY (Eds.), X-ray astronomy, *book review* of, 668
 Gibson, D. B. *See* Martinez-Vargas, M. C., *et al.*
 GIESEKING, J. E. (Ed.), Soil components, *book review* of, 456
 Gilbert, J. V. *See* Plaut, A. G., *et al.*
 GILBERT, L. E., and P. H. RAVEN (Eds.), Coevolution of animals and plants, *book review* of, 455
 Giles, K. L. *See* Vasil, I. K.
 Gillam, B. M. *See* Pascal, T. A., *et al.*
 Gilula, N. B. *See* Branton, D., *et al.*
 Glassgold, J. M. *See* Hauser, D. C. R., *et al.*
 Gleich, G. J., and G. L. Jacob: Immunoglobulin E antibodies to pollen allergens account for high percentages of total immunoglobulin E protein, 1106
 Gliddon, J. B. *See* Galbraith, G. C., *et al.*
 Glucose-6-phosphate deficiency and inhibition by NADPH: a self-contradictory argument, H. N. Kirkman *et al.*, 171
 Goldberg, M. *See* Hackman, R. H.
 Goldfish retina: functional polarization of cone horizontal cell dendrites and synapses, W. K. Stell *et al.*, 989
 Goldsmith, T. H.: *book review* of The compound eye and vision of insects, 778
 Goldstein, G. *See* Scheid, M. P., *et al.*
 Goodman, L. W. *See* Stevens, R., *et al.*
 Goodwin, F. K. *See* Post, R. M.
 Gordon, P.: NSF materials funding (*letter*), 10
 Gorodilova, V. V., and A. Hollinshead: Melanoma antigens that produce cell-mediated immune responses in melanoma patients, 391
 Gorsline, D. S. *See* Vonder Haar, S. P.
 Grade inflation (*editorial*), A. Etzioni, 101
 Grant, D. L. *See* Timberlake, W.
 Gray, J. C. *See* Chen, K., *et al.*
 Graybeal, F. T. *See* Rona, P. A.
 Green, J. A., and S. Baron: 5-Iododeoxyuridine potentiation of the replication *in vitro* of several unrelated RNA and DNA viruses, 1099
 Greene, L. S. *See* Desor, J. A., *et al.*
 Greengard, P. *See* Kebabian, J. W., *et al.*
 "Greenhouse effect," The (*letter*), R. G. Fleagle and J. A. Businger, 1042
 Greenhouse effect due to chlorofluorocarbons: climatic implications, V. Ramanathan, 50
 Greenland, D. J.: Bringing the Green Revolution to the shifting cultivator, 841
 Greenwich Observatory, E. G. FORBES (vol. 1), A. J. MEADOWS (vol. 2), D. HOWSE (vol. 3), *book review* by D. J. Warner, 1193
 Grobstein, P., and K. L. Chow: Receptive field development and individual experience, 352
 Gros, J. *See* Anders, E., *et al.*
 Gross, D. H.: Galilean satellites and Jovian energetic particles, 564
 Groves, P. M., *et al.*: Self-inhibition by dopaminergic neurons, 522
 Guanidinium-CsCl density gradients for isopycnic analysis of nucleic acids, V. Enea and N. D. Zinder, 584

INDEX TO VOLUME 190

- Guilleminault, C., et al.: Apneas during sleep in infants: possible relationship with sudden infant death syndrome, 677
- Gundy, G. C., et al.: Parietal eyes in lizards: zoogeographical correlates, 671
- GUNTHER, A. E.: A century of zoology at the British Museum, *book review* of, 43
- GURSKY, H. *See* GIACCONI, R.
- Gusdon, J. P., Jr.: Fetal blood-typing (*letter*), 938
- Gustavson, T.: The controversy over peer review, 1060
- Gustavson, M. R.: Evolving strategic arms and the technologist, 955
- GÜTTINGER, W. *See* CONRAD, M., et al.
- H**
- Haber, B. *See* Suddith, R. L., et al.
- Hackerman, N.: Higher education: who needs it? (*editorial*), 513
- Hackman, R. H., and M. Goldberg: Peripatus: its affinities and its cuticle, 582
- Hailman, J. P. *See* Planck, R. J., et al.
- "Half" membrane enrichment: verification by electron microscopy, K. A. Fisher, 983
- Halgren, T. A., et al.: Quantum organic chemistry: an alternative view, 591
- Hall, C. A., Jr., San Simeon-Hosgri fault system, coastal California: economic and environmental implications, 1291
- Hall, W. G.: Weaning and growth of artificially reared rats, 1313
- Hamernik, R. *See* Salvi, R., et al.
- Hamilton, W. L., and R. A. Reck: Aerosols and polar temperature, 696
- Hammond, A. L. (*Research News*): artificial tornadoes, 257; geothermal resources, 370; high-pressure geophysics, 967; methanol at Massachusetts Institute of Technology, 761
- Handbook of drug and chemical stimulation of the brain, R. D. MYERS, *book review* by S. F. Leibowitz, 1196
- Hansen, J. W., et al.: Monthly gonadotropin cycles in premenarcheal girls, 161
- Hardy, W. D., Jr. *See* Essex, M., et al.
- Harkin, J. M. *See* Chesters, G.
- Harper, C. W., Jr.: Origin of species in geologic time: alternatives to the Eldredge-Gould model, 47
- Harrington, A. *See* Morin, J. G., et al.
- Harris, R. C. *See* Winick, M., et al.
- Hastings, J. W. *See* Morin, J. G., et al.
- Haury, E. W., and T. G. Parsons: Metric slips (*letters*), 324
- Hauser, D. C. R., et al.: Ultrasensitive chemosensory responses by a protozoan to epinephrine and other neurochemicals, 285
- Haussler, M. R. *See* Hughes, M. R., et al.
- Hayden, B. P.: Storm wave climates at Cape Hatteras, North Carolina: recent secular variations, 981
- Hazen, E. E., Jr. *See* Collins, D. M., et al.
- Hazlett, B. A. *See* Ameyaw-Akumfi, C.
- Heirtzler, J. R. *See* Ballard, R. D., et al.
- Held, R. *See* Leehey, S. C., et al.
- Helinski, D. R. *See* Meyers, R., et al.
- HELMs, M. W., Middle America, *book review* of, 977
- Hemopoietic stem cells in human peripheral blood, R. D. Barr et al., 284
- Henderson, D. *See* Salvi, R., et al.
- Hepatic peroxisome proliferation: induction by two novel compounds structurally unrelated to clofibrate, J. K. Reddy and T. P. Krishnantha, 787
- Hepatitis B vaccine (*letter*), W. J. Brzosko, 510
- Heritability hang-up, The, M. W. Feldman and R. C. Lewontin, 1163
- Herrer, A., and H. A. Christensen: Implication of *Phlebotomus* sand flies as vectors of bartonellosis and leishmaniasis as early as 1764, 154
- Herschman, A. (*AAAS*): Frontiers of science and our expectations, 1079; Perspectives on science and our expectations, 1285; Science and our expectations: bicentennial and beyond, 651; Use of science and our expectations, 1190
- HETE: new observations (*letter*), S. R. Turner et al., 1246
- Heteropolypeptides from poly- α -cyanoglycine and hydrogen cyanide: a model for the origin of proteins, R. Minard et al., 387
- High speed scintillation autoradiography, B. G. M. Durie and S. E. Salmon, 1093
- Higher education: who needs it? (*editorial*), N. Hackerman, 513
- Higuchi, H. *See* Anders, E., et al.
- Higuchi, T. *See* Bodor, N., et al.
- Hill, H. L. *See* Bekoff, M., et al.
- Hill, R. N., et al.: Genetic control of chloroform toxicity in mice, 159
- Hiller, J. M. *See* Simon, E. J., et al.
- Hillman, D. E. *See* Llinás, R., et al.
- Hine, B. *See* Carder, B., et al.
- Hirsch, H. V. B. *See* Blake, R. *See also* Leventhal, A. G.
- Hirschhorn, K. *See* Pascal, T. A., et al.
- Histamine and radiation-induced taste aversion conditioning, G. R. Sessions et al., 402
- HMPPA: a possible carcinogen (*letter*), J. A. Zapp, Jr., 422
- Ho, M. *See* Wu, B. C., et al.
- Hoak, J. C. *See* Spector, A. A., et al.
- Hoch, W. S. *See* Spector, A. A., et al.
- Hoebel, B. G. *See* Ahlskog, J. E., et al.
- Hofer, K. G. *See* Sessions, G. R., et al.
- Hoffman, A. J., et al.: EPA's role in ambient air quality monitoring, 243
- Hoffman, H. J. *See* Hansen, J. W., et al.
- Hoffmann, H.-P. *See* Uitto, J., et al.
- Hoffman, W. E. *See* Buggy, J., et al.
- Hoigné, J., and H. Bader: Ozonation of water: role of hydroxyl radicals as oxidizing intermediates, 782
- Hökfelt, T., et al.: Substance P: localization in the central nervous system and in some primary sensory neurons, 889
- Holden, C. (*News and Comment*): Bicentennial and science and history, 965; drug abuse, 638; employment testing, 35; firewood shortage, 36; Hamburg heads Institute of Medicine, 963; Hazel Henderson, 862; lie detectors, 359; Moon-sponsored conference, 1073; opium-free poppy study, 1274; private college study, 1277; Project Knowledge 2000, 963; space programs and the National Aeronautics and Space Administration, 960
- Holick, M. F., et al.: Synthesis of [6-³H]- λ -hydroxyvitamin D₃ and its metabolism in vivo to [³H]- λ ,25-dihydroxyvitamin D₃, 576
- Holick, S. A. *See* Holick, M. F., et al.
- Holliday, R. *See* Borek, E., et al.
- Hollinshead, A. *See* Gorodilova, V. V.
- Holt, C. E. *See* Adler, P. N., et al.
- Hood, L. *See* Weiner, S.
- Hopkins, H. A. *See* Murad, F., et al.
- Horn, D. H. S. *See* Kaplanis, J. N., et al.
- HORRIDGE, G. A. (Ed.): The compound eye and vision of insects, *book review* of, 778
- Host phase of a strange xenon component in Alende, R. S. Lewis et al., 1251
- Host tree location behavior of a tropical vine (*Monstera gigantea*) by skototropism, D. R. Strong, Jr., and T. S. Ray, Jr., 804
- Howard, J. N.: *book review* of The International Bureau of Weights and Measures, 1875-1975, 667
- Howe, M. M., and E. G. Bade: Molecular biology of bacteriophage Mu, 624
- HOWSE, D.: Francis Place and the early history of the Greenwich Observatory, *book review* of, 1193
- , Greenwich Observatory, vol. 3, *book review* of, 1193
- Hoy, R. *See* Camhi, J. M., et al.
- Huggins, G. R. *See* Doty, R. L., et al.
- Hughes, M. R., et al.: Regulation of serum λ ,25-dihydroxyvitamin D₃ by calcium and phosphate in the rat, 578
- Hui, S. W., and D. F. Parsons: Direct observation of domains in wet lipid bilayers, 383
- Human α -lactalbumin: measurement in serum and in breast cancer organ cultures by radioimmunoassay, D. L. Kleinberg, 276
- Human interferon production: superinduction by 5,6-dichloro-1- β -D-ribofuranosylbenzimidazole, P. B. Sehgal et al., 282
- Humanizing computerized information systems, T. D. Sterling, 1168
- Hunt, W. F., Jr. *See* Hoffman, A. J., et al.
- Hutchison, H. T. *See* Suddith, R. L., et al.
- Hydrogen cyanide production during reduction of nitric oxide over platinum catalysts, R. J. H. Voorhoeve et al., 149
- Hyperbaric hydrogen therapy: a possible treatment for cancer, M. Dole et al., 152
- Hypothalamic hyperphagia: dissociation from hyperphagia following destruction of noradrenergic neurons, J. E. Ahlskog et al., 399
- I**
- Ibers, J. A. *See* Kaduk, J. A.
- Identification of neurons in cultures, M. A. Dichter et al., 489
- Immunity in cancer, F. B. Seibert, 809
- Immunoglobulin E antibodies to pollen allergens account for high percentages of total immunoglobulin E protein, G. J. Gleich and G. L. Jacob, 1106
- Immunosurveillance of naturally occurring feline leukemia, M. Essex et al., 790
- Implication of *Phlebotomus* sand flies as vectors of bartonellosis and leishmaniasis as early as 1764, A. Herrer and H. A. Christensen, 154
- Increased urinary excretion of cyclic guanosine monophosphate in rats bearing Morris hepatoma 3924A, F. Murad et al., 58
- Independence of "on" and "off" responses of retinal ganglion cells, M. W. Levine and J. M. Shefner, 1215
- Induced transfer of higher plant chloroplasts into fungal protoplasts, I. K. Vasil and K. L. Giles, 680
- Induction of F₁ hybrid antiparent cytotoxic effector cells: an *in vitro* model for hemopoietic histoincompatibility, G. M. Shearer and G. Cudkowicz, 890
- Infectious etiology of neuritic (senile) plaques in mice, H. M. Wiśniewski et al., 1108
- Inferior olive: its role in motor learning, R. Llinás et al., 1230
- Ingerman, C. M. *See* Spector, A. A., et al.
- Insects, science, and society, D. PIMENTEL (Ed.), *book review* by H. V. Daly, 1290
- Insel, P. A., et al.: Cyclic AMP-dependent protein kinase: pivotal role in regulation of enzyme induction and growth, 896
- Insular biogeography: of mice and mites, W. Dritschilo et al., 467
- Interaction between ions and molecules, P. AUSLOOS (Ed.), *book review* by F. Kaufman, 878
- Interdisciplinary misunderstanding (*letter*), M. E. Sarty, 836
- Interfiber forces during wetting and drying, J. Skelton, 15
- International Bureau of Weights and Measures, 1875-1975, The, c. H. PAGE and P. VIGOREUX (Eds.), *book review* by J. N. Howard, 667
- International Women's Year (*editorial*), I. Tinker, 1249
- Invertebrate learning, W. C. CORNING et al. (Eds.), *book review* by A. Gelperin, 371
- Investment in research (*letter*), W. T. Knox, 834
- In vitro demonstration of an endothelial proliferative factor produced by neural cell lines, R. L. Suddith et al., 682
- 5-Iododeoxyuridine potentiation of the replication in vitro of several unrelated RNA and DNA viruses, J. A. Green and S. Baron, 1099
- Ionophore-mediated calcium entry induces mussel gill ciliary arrest, P. Satir, 586
- Ishay, J., and D. Sadeh: Direction finding by hornets under gravitational and centrifugal forces, 802
- J**
- JACK, J. J. B., et al.: Electric current flow in excitable cells, *book review* of, 1087
- JACKLIN, C. N. *See* MACCOBY, E. E.
- Jacob, G. L. *See* Gleich, G. J.
- Jacobs, H. L. *See* Moskowitz, H. W., et al.
- Jakowski, R. M. *See* Essex, M., et al.

INDEX TO VOLUME 190

- Jay, J. M.: Black Ph.D.'s (*letter*), 834
 Jehl, J. R., Jr. *See* Anderson, D. W., *et al.*
 Jelonek, A. *See* Puschett, J. B., *et al.*
 Jensen, A. R.: Jensen's address at APA meeting (*letter*), 216
 Jensen, C. E., *et al.*: Earthwatch, 432
 Jensen, W. A.: *book review* of Pollen, 45
 Jensen's address at APA meeting (*letter*), A. R.
 Jensen, 216
 Jesson, J. P. *See* Rowland, F. S., *et al.*
 Johnson, A. K. *See* Buggy, J., *et al.*
 Johnson, W. A. *See* Somes, R. G., Jr., *et al.*
 Johnson, W. D. *See* Hill, R. N., *et al.*
 Johnston, V. S. *See* Galbraith, G. C., *et al.*
 JOHNSTONE, R. C. B. *See* LAWS, R. M., *et al.*
 Jones, E. E.: *book review* of Cognitive views of human motivation, 976
 Jones, E. G., *et al.*: Commissural and cortico-cortical "columns" in the somatic sensory cortex of primates, 572
 Joyner, W. B. *See* Schiff, A. J., *et al.*
 Jutro, P. R.: *book review* of The Florida experience, 1085
- K**
- Kachadorian, W. A., *et al.*: Vasopressin: induced structural change in toad bladder luminal membrane, 67
 Kadivar, D. M. H., and E. J. L. Soulsby: Model for disseminated cutaneous leishmaniasis, 1198
 Kaduk, J. A., and J. A. Ibers: Catalysis of NO + CO, 592
 Kahn, C. R. *See* Flier, J. S., *et al.*
 Kandel, D.: Stages in adolescent involvement in drug use, 912
 Kao, I. *See* Toyka, K. V., *et al.*
 Kaplanis, J. N., *et al.*: Makisterone A: a 28-carbon hexahydroxy molting hormone from the embryo of the milkweed bug, 681
 Karinen, J. F.: Oil spill effects (*letter*), 216
 Karnovsky, M. J. *See* Branton, D., *et al.*
 Kartem, H. J. *See* Stricker, E. M., *et al.*
 KATZ, M. M. *See* FRIEDMAN, R. J.
 Kaufman, F.: *book review* of Interaction between ions and molecules, 878
 Kaufman, L. *See* Brenner, D., *et al.*
 Kebabian, J. W., *et al.*: Neurotransmitters increase cyclic nucleotides in postganglionic neurons: immunocytochemical demonstration, 157
 Keller, G. *See* Ballard, R. D., *et al.*
 Kellerth, J. O. *See* Hökfelt, T., *et al.*
 Kelly, P. J. *See* Suddith, R. L., *et al.*
 KENNEDY, W. A. *See* BROMAN, S. H., *et al.*
 Kerl, R. J. *See* Voorhoeve, R. J. H., *et al.*
 KEITZMAN, M. L., *et al.* (Eds.): Experimental approaches to psychopathology, *book review* of, 46
 KIEV, A. (Ed.): Somatic manifestations of depressive disorders, *book review* of, 453
 Kim, C. Y. *See* Sternberg, M., *et al.*
 Kimura, H. *See* Murad, F., *et al.*
 KING, T. J. (Ed.): Developmental aspects of carcinogenesis and immunity, *book review* of, 373
 Kirkman, H. N., *et al.*: Glucose-6-phosphate deficiency and inhibition by NADPH: a self-contradictory argument, 171
 Kleier, D. A. *See* Halgren, T. A., *et al.*
 KLEIN, J.: Biology of the mouse histocompatibility-2 complex, *book review* of, 978
 Klein, R. G.: Middle Stone Age man-animal relationships in southern Africa: evidence from Die Kelders and Klasies River mouth, 265
 Kleinberg, D. L.: Human α -lactalbumin: measurement in serum and in breast cancer organ cultures by radioimmunoassay, 276
 Knoll, A. H., and E. S. Barghoorn: Precambrian eukaryotic organisms: a reassessment of the evidence, 52
 Knopman, D. S. (*Research News*): conservation of stone artworks, 1187
 KNOWLES, F., and L. VOLLRATH (Eds.): Neurosecretion, *book review* of, 44
 Knox, R. S.: *book review* of Optical properties of ions in solids, 780
 Knox, W. T.: Investment in research (*letter*), 834
 Koocs, J. J. *See* Spector, A. A., *et al.*
 Kolata, G. B. (*News and Comment*): heart disease and its prevention, 764; (*Research News*): applied mathematics, 773; cell surface protein, 39; intracellular bacterial toxins, 969; ribosomes, 136; thromboxanes, 770
 Konishi, M. *See* Planck, R. J., *et al.*
 Kooyman, G. L., *et al.*: Spout of the gray whale: its physical characteristics, 908
 Koprowski, H. *See* Croce, C. M., *et al.*
 Korn, D. *See* Weissbach, A., *et al.*
 Korn, E. D.: Availability of grant applications (*letter*), 736
 Kovacs, C. J. *See* Murad, F., *et al.*
 Koziar, A., and D. W. Strangway: Magnetotelluric sounding of permafrost, 566
 Krell, D. *See* Brehm, B. G.
 Krieger, N. *See* Morin, J. G., *et al.*
 Krishnakantha, T. P. *See* Reddy, J. K.
 Krummel, J. *See* Pimentel, D., *et al.*
 Kuhl, P. K., and J. D. Miller: Speech perception by the chinchilla: voiced-voiceless distinction in alveolar plosive consonants, 69
 Kuiken, L. B. *See* Sabesin, S. M., *et al.*
 Kumaraiyah, V. *See* Moskowitz, H. W., *et al.*
 Kummerow, J.: *book review* of Ecological strategies of xylem evolution, 45
 Kupchan, S. M. *See* Riggs, A.
 Kutzman, J. *See* Pimentel, D., *et al.*
 Kwako, E. S.: Communication department plans seminars (*AAAS*), 41
- L**
- α -Lactalbumin production in human mammary carcinoma, H. N. Rose and C. M. McGrath, 673
 Landor, J. H. *See* Boden, G., *et al.*
 Large-scale isolation of intact vacuoles and isolation of chloroplasts from protoplasts of mature plant tissues, G. J. Wagner and H. W. Siegelman, 1298
 Laser-excited Raman spectroscopy for non-destructive partial analysis of individual phases in fluid inclusions in minerals, G. J. Rosasco *et al.*, 557
 Late-Quaternary climatic trends and history of Lake Erie from stable isotope studies, P. Fritz *et al.*, 267
Latimeria, the living coelacanth, is ovoviparous, C. L. Smith *et al.*, 1105
 Lau, L. C.-T.: Production of globules in mouse L cells penetrated with hamster sperms, 684
 LAWS, R. M., *et al.*: Elephants and their habitats, *book review* of, 263
 Leder, A., *et al.*: Differentiation of erythroleukemic cells in the presence of inhibitors of DNA synthesis, 893
 Leder, P. *See* Leder, A., *et al.*
 Leehey, S. C., *et al.*: Orientational anisotropy in infant vision, 900
 Leeper, H. F. *See* Stell, W. K., *et al.*
 Lees, R. S. *See* Deckelbaum, R. J., *et al.*
 Leibowitz, S. F.: *book review* of Handbook of drug and chemical stimulation of the brain, 1196
 Leigh, E. G., Jr. *See* Warner, R. R., *et al.*
 LENT, P. C. *See* BÉDARD, J., *et al.*
 Leo, M. A. *See* Baraona, E., *et al.*
 Leroi-Gourhan, A.: The flowers found with Shanidar IV, a Neanderthal burial in Iraq, 562
 Lessard, R. *See* Sankoff, D.
 LESSE, S. (Ed.): Masked depression, *book review* of, 453
 Letokhov, V. S.: Nonlinear high resolution laser spectroscopy, 344
 Letson, R. D. *See* Banks, M. S., *et al.*
 Letter to *Izvestiya* (*letter*), I. S. Bengelsdorf, 1152
 Leukemia virus-induced immunosuppression: scanning electron microscopy of infected spleen cells, P. Farber *et al.*, 469
 Levandowsky, M. *See* Hauser, D. C. R., *et al.*
 Leventhal, A. G., and H. V. B. Hirsch: Cortical effect of early selective exposure to diagonal lines, 902
 Levin, B. R.: *book review* of Molecular population genetics and evolution, 372
 Levine, M. W., and J. M. Shefner: Independence of "on" and "off" responses of retinal ganglion cells, 1215
 Levy, C. J. *See* Sessions, G. R., *et al.*
 Lewis, C. F. M. *See* Fritz, P., *et al.*
 Lewis, J. S. *See* Prinn, R. G.
 Lewis, M. E., *et al.*: Pattern discrimination after lesions of the visual cortex, 914
 Lewis, R. S., *et al.*: Host phase of a strange xenon component in Allende, 1251
 Lewontin, R. C. *See* Feldman, M. W.
 Li, Y. T.: Stimulating technological innovation (*letter*), 10
 Libby, W. F.: Geothermal energy production (*letter*), 1246
 Lichtin, N. N. *See* Chen, S.-N., *et al.*
 Lieber, C. S. *See* Baraona, E., *et al.*
 Life cycle variants of *Physarum polycephalum* that lack the amoeba stage, P. N. Adler *et al.*, 65
 Light for all reasons: versatility in the behavioral repertoire of the flashlight fish, J. G. Morin *et al.*, 74
 Lightbody, L. E. *See* Dichter, M. A., *et al.*
 Lightfoot, D. O. *See* Stell, W. K., *et al.*
 Likens, G. E. *See* Makarewicz, J. C.
 Lin, C. C., and J. H. van de Sande: Differential fluorescent staining of human chromosomes with daunomycin and adriamycin—the D-bands, 61
 Lin, C.-T., and J. P. Chang: Electron microscopy of albumin synthesis, 465
 Lindquist, E. L. *See* Kaplanis, J. N., *et al.*
 Lindsley, D. B. *See* Chalupa, L. M., *et al.*
 LINDZEY, G. *See* LOEHLIN, J. C., *et al.*
 LINSKENS, H. F. *See* STANLEY, R. G.
 LINZELL, J. L. *See* PEAKER, M.
 Lipoprotein and lecithin: cholesterol acyltransferase changes in galactosamine-induced rat liver injury, S. M. Sabesin *et al.*, 1302
 Lipscomb, W. N. *See* Halgren, T. A., *et al.*
 Liu, D. K. *See* Hill, R. N., *et al.*
 Llinás, R., *et al.*: Inferior olive: its role in motor learning, 1230
 Lockeretz, W.: Productivity of organic farms (*letter*), 508
 Lockwood, G. W.: Planetary brightness changes: evidence for solar variability, 560
 Locus of short-term visual storage, B. Sakitt, 1318
 LOEHLIN, J. C., *et al.*: Race differences in intelligence, *book review* of, 775
 Loewenstein, W. R. *See* Rose, B.
 Loher, W. *See* Rence, B.
 Looney, W. B. *See* Murad, F., *et al.*
 Lord Kelvin and the age of the earth, J. D. BURCHFIELD, *book review* by C. J. Schneer, 1193
 Lost opportunity (*letter*), J. M. Camhi *et al.*, 422
 Lost strain of rats (*letter*), H. M. Weaver, 219
 Lovelace, E. *See* Miller, Z., *et al.*
 Lundell, L. L. *See* Adams, J. A. S., *et al.*
 Lymphocyte surface immunoglobulins, J. J. Marchalonis, 20
 Lymphocytes of the toad *Xenopus laevis* have the gene set for promoting tadpole development, M. R. Wabl *et al.*, 1310
 Lynn, W. S. *See* Turner, S. R., *et al.*
 Lysinoalanine: presence in foods and food ingredients, M. Sternberg *et al.*, 992
 Lytle, L. D., *et al.*: Effects of long-term corn consumption on brain serotonin and the response to electric shock, 692
- M**
- Macadar, A. W. *See* Chalupa, L. M., *et al.*
 MACCOBY, E. E., and C. N. JACKLIN: The psychology of sex differences, *book review* of, 140
 MacDonald, J. F., and R. W. Matthews: *Vespula squamosa*: a yellow jacket wasp evolving toward parasitism, 1003
 MacGillivray, R. T. A., and K. Brew: Transferrin: internal homology in the amino acid sequence, 1306
 MacLane, S.: Peer review and the structure of science (*editorial*), 617

INDEX TO VOLUME 190.

- Maer, F. *See* Schwartz, G. E., *et al.*
 Magnetic bubbles, T. H. O'DELL, *book review* by A. H. Bobeck, 779
 Magnetotactic bacteria, R. Blakemore, 377
 Magnetotelluric sounding of permafrost, A. Koziar and D. W. Strangway, 566
 Mahaffy, M. A. *See* Barry, R. G., *et al.*
 Makarewicz, J. C., and G. E. Likens: Niche analysis of a zooplankton community, 1000
 Makisterone A: a 28-carbon hexahydroxy molting hormone from the embryo of the milkweed bug, J. N. Kaplanis *et al.*, 681
 Malaisse, W. J. *See* Malaisse-Lagae, F., *et al.*
 Malaisse-Lagae, F., *et al.*: Exocrine pancreas: evidence for topographic partition of secretory function, 795
 Maller, O. *See* Desor, J. A., *et al.*
 Malnutrition and environmental enrichment by early adoption, M. Winick *et al.*, 1173
 Mann, T. E.: Congressional fellows (*letter*), 330
 Manned submersible observations in the FA- MOUS area: Mid-Atlantic Ridge, R. D. Ballard *et al.*, 103
 Mantle plume mixing along the Reykjanes Ridge axis: lead isotopic evidence, S.-S. Sun *et al.*, 143
 Mantovani, M. S. M. *See* Adams, J. A. S., *et al.*
 Manuelidis, E. E.: Transmission of Creutzfeldt-Jakob disease from man to the guinea pig, 571
 Marchalonis, J. J.: Lymphocyte surface immunoglobulins, 20
 Marr, D.: *book review* of Physics and mathematics of the nervous system, 875
 Marsh, R. E. *See* Bell, R. A., *et al.*
 Marshall, T. R., *et al.*: Precision measurement of particulates by light scattering at optical resonance, 375
 Martin, J. H., and W. W. Broenkow: Cadmium in plankton: elevated concentrations off Baja California, 884
 MARTIN, M. K., and B. VOORHIES, Female of the species, *book review* of, 874
 Martinez-Vargas, M. C., *et al.*: Estrogen target sites in the brain of the chick embryo, 1307
 Marx, J. L. (*Research News*): cytomegalovirus, 1184; learning and behavior, 367, 544
 Masked depression, S. LESSE (Ed.), *book review* by G. L. Engel, 453
 Mass, C. *See* Schneider, S. H.
 Mass measurement: a study of anomalies, P. E. Pontius, 379
 Mathematical theory of diffusion and reaction in permeable catalysts, The, R. ARIS, *book review* by N. R. Amundson, 667
 Matteson, D. S.: *book review* of Boron hydride chemistry, 264
 Matthews, C. *See* Minard, R., *et al.*
 Matthews, R. W. *See* MacDonald, J. F.
 Mattson, W. J., and N. D. Addy: Phytophagous insects as regulators of forest primary production, 515
 Maugh, T. H., II (*Research News*): chemical pollutants, 1189; diabetes therapy, 1281; malodor counteractants, 870; marihuana and its hazards, 865; ribosomes, 258
 May, R. M.: *book review* of Ecological diversity, 1086
 Mayer, J. W., *et al.*: Thin films and solid-phase reactions, 228
 Mayyasi, S. A. *See* Yeh, J., *et al.*
 McConnell, R. A. *See* Clark, T. K., *et al.*
 McCracken, J. A. *See* Roberts, J. S.
 MC CREA, W. H., Royal Greenwich Observatory, *book review* of, 1193
 McElroy, W. D.: Support of basic research (*editorial*), 13
 McFadden, D., and E. G. Pasanen: Binaural beats at high frequencies, 394
 McGrath, C. M. *See* Rose, H. N.
 McHenry, H. M.: Fossils and the mosaic nature of human evolution, 425
 McHugh, P. R., *et al.*: Satiety: a graded behavioral phenomenon regulating caloric intake, 167
 McLachlan, J. A., *et al.*: Reproductive tract lesions in male mice exposed prenatally to diethylstilbestrol, 991
 McLaren, G. *See* Planck, R. J., *et al.*
 McMullen, T. B. *See* Hoffman, A. J., *et al.*
 McWilliams, M. O., and D. J. Dunlop: Precambrian paleomagnetism: magnetizations reset by the Grenville orogeny, 269
 MEADOWS, A. J., Greenwich Observatory, vol. 2, *book review* of, 1193
 Mefloquine (WR 142,490) in the treatment of human malaria, G. M. Trenholme *et al.*, 792
 Melanoma antigens that produce cell-mediated immune responses in melanoma patients: joint U.S.-U.S.S.R. study, V. V. Gorodilova and A. Hollinshead, 391
 Melatonin: antigonadal and progonadal effects in male golden hamsters, F. W. Turek *et al.*, 280
 Membrane electrode probes for biological systems, G. A. Rechnitz, 234
 Menaker, M. *See* Turek, F. W., *et al.* *See also* Zimmerman, N. H.
 Menard, H. W., and G. Sharman: Scientific uses of random drilling models, 337
 MENDELSS, J. (Ed.): The psychobiology of depression, *book review* of, 977
 Menkart, J.: Excess bladder cancer in beauticians? (*letter*), 96
 Messing, R. B. *See* Lytle, L. D., *et al.*
 Metric slips (*letters*), E. W. Haury and T. G. Parsons, 324
 Metz, W. D. (*News and Comment*): European physics, 1179; (*Research News*): breeders in Europe, 1279; nonmetallic materials, 450
 — and A. L. Robinson (*Research News*): synchrotron radiation, 1186
 Meyer, E. F., Jr. *See* Collins, D. M., *et al.*
 Meyer, K. K. *See* Winick, M., *et al.*
 Meyers, R., *et al.*: Molecular vehicle properties of the broad host range plasmid RK2, 1226
 Mick, S. S. *See* Stevens, R., *et al.*
 Middle America, M. W. HELMS, *book review* by M. C. Webb, 977
 Middle Stone Age man-animal relationships in southern Africa: evidence from Die Kelders and Klaries River mouth, R. G. Klein, 265
 MILHORAT, A. T. (Ed.): Exploratory concepts in muscular dystrophy II, *book review* of, 549
 Miller, J. D. *See* Kuhl, P. K.
 Miller, Z., *et al.*: Cyclic guanosine monophosphate and cellular growth, 1213
 Minard, R., *et al.*: Heteropolypeptides from poly- α -cyanoglycine and hydrogen cyanide: a model for the origin of proteins, 387
 Minerals and plate tectonics (*letters*), P. A. Rona and F. T. Graybeal, 422
 Minor salivary glands as a major source of secretory immunoglobulin A in the human oral cavity, J. M. Crawford *et al.*, 1206
 Mirabito, J. A. *See* Jensen, C. E., *et al.*
 Mirror making (*letter*), D. L. Evans, 737
 Mitton, J. B. *See* Bekoff, M., *et al.*
 Mixed blessing (*letter*), D. H. Williams, 1158
 Mizell, M.: *book review* of Carcinogenesis as a biological problem and Developmental aspects of carcinogenesis and immunity, 373
 Model for differentiation based on DNA modifying enzymes, E. Borek *et al.*, 591
 Model for disseminated cutaneous leishmaniasis, D. M. H. Kadivar and E. J. L. Soulsby, 1198
 Modification of cortical orientation selectivity in the cat by restricted visual experience: a re-examination, M. P. Stryker and H. Sherk, 904
 Molecular biology of bacteriophage Mu, M. M. Howe and E. G. Bade, 624
 Molecular population genetics and evolution, M. NEI, *book review* by B. R. Levin, 372
 Molecular vehicle properties of the broad host range plasmid RK2, R. Meyers *et al.*, 1226
 Molina, M. J. *See* Rowland, F. S., *et al.*
 Molluscan gastrin: concentration and molecular forms, E. Straus *et al.*, 687
 Monthly gonadotropin cycles in premenarcheal girls, J. W. Hansen *et al.*, 161
 Moor, H. *See* Branton, D., *et al.*
 Moore, J. G. *See* Ballard, R. D., *et al.*
 Moral development, D. J. DE PALMA and J. M. FOLEY (Eds.), *book review* by J. Adelson, 1288
 Moran, T. H. *See* McHugh, P. R., *et al.*
 Moravcsik, M. J., *et al.*: Third World science and technology (*letters*), 938
 Moreau, S. C., and R. C. Skarnes: Complement-mediated bactericidal system: evidence for a new pathway of complement action, 278
 Morgan, J. S. *See* Anders, E., *et al.*
 Morimoto, C. N. *See* Collins, D. M., *et al.*
 Morin, J. G., *et al.*: Light for all reasons: versatility in the behavioral repertoire of the flashlight fish, 74
 Morrell, J. B.: *book review* of Scottish philosophy and British physics, 1750-1880, 778
 Mosher, H. S. *See* Eliel, E. L.
 Moskowitz, H. W., *et al.*: Cross-cultural differences in simple taste preferences, 1217
 Moskowitz-Cook, A. *See* Leehey, S. C., *et al.*
 Mroz, E. J., and W. H. Zoller: Composition of atmospheric particulate matter from the eruption of Heimaey, Iceland, 461
 MUETTERTIES, E. (Ed.): Boron hydride chemistry, *book review* of, 264
 Mühlenthaler, K. *See* Branton, D., *et al.*
 Müller-Lyer figure and the fly, The, G. Geiger and T. Poggio, 479
 Multidimensional variation in an avian display: implications for social communication, R. H. Wiley, 482
 Murad, F., *et al.*: Increased urinary excretion of cyclic guanosine monophosphate in rats bearing Morris hepatoma 3924A, 58
 Murray, E. A. *See* Suddith, R. L., *et al.*
 Mutatis mutandis: Congress, science, and law (*editorial*), J. W. Curlin, 839
 Myasthenia gravis: passive transfer from man to mouse, K. V. Toyka *et al.*, 397
 Mycogenetics, J. H. BURNETT, *book review* by R. H. Davis, 550
 Myers, P. C. *See* Barrett, A. H.
 MYERS, R. D.: Handbook of drug and chemical stimulation of the brain, *book review* of, 1196

N

- Nafus, D. *See* Dritschilo, W., *et al.*
 Nathans, D.: *book review* of RNA phage, 1195
 Nealson, K. *See* Morin, J. G., *et al.*
 NEI, M.: Molecular population genetics and evolution, *book review* of, 372
Neisseria gonorrhoeae and *Neisseria meningitidis*: extracellular enzyme cleaves human immunoglobulin A, A. G. Plaut *et al.*, 1103
 Nelson, B. (*News and Comment*): *Bulletin of the Atomic Scientists*, 1070
 Nelson, J. *See* Minard, R., *et al.*
 Neural connections of sparrow pineal: role in circadian control of activity, N. H. Zimmerman and M. Menaker, 477
 Neuroplasticity in the sparing of deterioration of function after early olfactory tract lesions, M. Devor, 998
 Neurosecretion, F. KNOWLES and L. VOLLRATH (Eds.), *book review* by W. F. Ganong, 44
 Neurotransmitters increase cyclic nucleotides in postganglionic neurons: immunocytochemical demonstration, J. W. Kebabian *et al.*, 157
 Neutron diffraction analysis of myoglobin: structure of the carbon monoxide derivative, J. C. Norvell *et al.*, 568
 New characteristic of life?, A (*letters*), R. C. Richmond and J. M. Burgers, 613
 Newbold, R. R. *See* McLachlan, J. A., *et al.*
 Newrock, K. M. *See* Cohen, L. H., *et al.*
News and Comment: Academy for Contemporary Problems, 365; advisory committees at the National Institutes of Health, 443; agricultural research lacks leaders, 1177; agricultural research system reorganization suggested by the National Academy of Sciences, 959; aircraft carriers, 130; Alaskan gas pipeline debate, 362; Americans for Energy Independence, 31; amniocentesis, 537; antiabortionists challenge March of Dimes, 538; arms control agency, 1275; Asilomar conference, 135; Bicentennial and science and history, 965; *Bulletin of the Atomic Scientists*, 1070; chemistry and uranium enrichment, 645; coal study by National Sci-

- ence Foundation, 446; comings and goings, 36; course content and the responsibility of NSF, 644; death with dignity bills, 1272; drug abuse, 638; employment testing, 35; energy research review, 535; European physics, 1179; fetal research, 251; firewood shortage, 36; free inquiry, 768; geophysics on the international level, 34; Habitat and United Nations conference, 1181; Hamburg heads Institute of Medicine, 963; Haemmerli affair, 1271; Hazel Henderson, 862; heart disease and its prevention, 764; higher education and regulation, 444; history of American technology, 763; icebergs and oil tankers, 641; institute directors at NIH, 36, 449; Kleppe to Interior, 134; lie detectors, 359; Limits to Growth conference, 540; Mauna Kea mirror cracks, 132; methanol at Massachusetts Institute of Technology, 761; military medical school, 860; Moon-sponsored Unity of the Sciences conference, 1073; Mosher to retire, 1276; National Advisory Commission on Oceans and Atmosphere backs industry ocean bills, 254; National Caucus of Labor Committee, 857; National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research, 252; Nicholas Georgescu-Roegen, 447; nuclear power and opposition to it, 964; nuclear power study by NAS, 254, 961; nuclear war effects disputed, 248; oil nations and technology, 766; opium-free poppy study, 1274; Pauling gets Medal of Science, 32; peat as a fuel, 1066; peer review at NSF, 253; pesticide control stays at the Environmental Protection Agency, 255; private college study, 1277; "Professional Woman and Minorities" report, 254; Project Knowledge 2000, 963; radioactive waste site search, 361; reactor safety study, 640; recombinant DNA, 767, 1175; Red River Dam project killed, 36; research and budget cutback, 1069; Rumsfeld and arms control scientists, 962; Sakharov wins Nobel peace prize, 358, 962; science restored to White House favor, 859; scientific opportunities syndrome, 364; scientists and their image, 255; sociologists of science, 962; Solar Energy Research Institute, 128, 536; space programs and the National Aeronautics and Space Administration, 960; SST study and deception, 861; think tank for Congress advances, 1178; Vancouver vetoes Habitat, 1182; Zumwalt and nuclear theology, 131
- Niche analysis of a zooplankton community, J. C. Makarewicz and G. E. Likens, 1000
- NICHOLS, P. L. *See* BROMAN, S. H., et al.
- NIH committee vacancies (*letter*), A. M. Briscoe, 938
- Nilsson, G. *See* Hökfelt, T., et al.
- Nobel prize for chemistry, The 1975 (*Research News*), E. L. Eliel and H. S. Mosher, 772
- Nobel prize for physics, The 1975 (*Research News*), H. Feshbach, 868
- Nobel prize for physiology or medicine, The 1975 (*Research News*), W. Eckhart, 650
- Nobel prize in economics, The 1975: resource allocation (*Research News*), H. E. Scarf, 649
- NOBLE, D. *See* JACK, J. J. B., et al.
- Nolan, V., Jr. *See* Carey, M.
- Nomenclature of eukaryotic DNA polymerases, A. Weissbach et al., 401
- Nomina generica (*letters*), A. Riggs and S. M. Kupchan, 612
- Nongenetic variability in susceptibility to oncogenesis, R. T. Prehn, 1095
- Nonlinear high resolution laser spectroscopy, V. S. Letokhov, 344
- Norris, K. S. *See* Kooyman, G. L., et al.
- North, R. G. *See* Chinnery, M. A.
- Northcote, D. H. *See* Branton, D., et al.
- Norvell, J. C., et al.: Neutron diffraction analysis of myoglobin: structure of the carbon monoxide derivative, 568
- NOWICK, A. S., and J. J. BURTON (Eds.), Diffusion in solids, *book review of*, 877
- NSF funding patterns (*letter*), D. K. Wilsdorf, 1248
- NSF materials funding (*letter*), P. Gordon, 10
- Nunes, A. C. *See* Norvell, J. C., et al.
- Oakes, J. B.: Clinical engineering—the problems and the promise, 239
- O'Connor, B. *See* Dritschilo, W., et al.
- o'DELL, T. H., Magnetic bubbles, *book review of*, 779
- Oil spill effects (*letter*), J. F. Karinen, 216
- OLSON, R., Scottish philosophy and British physics, 1750–1880, *book review of*, 778
- O'Neill, G. K.: Space colonies and energy supply to the earth, 943
- On evoked potentials, cognition, and memory, E. Donchin et al., 1004
- Ong, D. E., et al.: Retinoic acid binding protein: occurrence in human tumors, 60
- Oshima, A., et al.: Collagen biosynthesis in blood vessels of brain and other tissues of the hypertensive rat, 898
- Optical properties of ions in solids, B. DI BARTOLO and D. PACHECO (Eds.), *book review by* R. S. Knox, 780
- Orci, L. *See* Malaisse-Lagae, F., et al.
- Organic farming methods (*letter*), S. R. Aldrich, 96
- Organophosphorus and methyl carbamate insecticide teratogenesis: diminished NAD in chicken embryos, N. H. Proctor and J. E. Caudida, 580
- Orias, E. *See* Rasmussen, L.
- Orientation of water in striated frog muscle, B. M. Fung, 800
- Orientational anisotropy in infant vision, S. C. Leehey et al., 900
- Origin of species in geologic time: alternatives to the Eldredge-Gould model, C. W. Harper, Jr., 47
- Orkin, S. *See* Leder, A., et al.
- Ortiz de Montellano, B.: Affirmative action (*letter*), 508
- Owen, O. E. *See* Boden, G., et al.
- ¹⁸O changes in foraminifera carbonates during the last 10⁵ years in the Mediterranean Sea, C. Vergnaud Grazzini, 272
- Ozato, K.: *book review of* Biology of the mouse histocompatibility-2 complex, 978
- Ozonation of water: role of hydroxyl radicals as oxidizing intermediates, J. Hoigné and H. Bader, 782
- Ozone question, The (*letters*), F. S. Rowland et al., 1038
- P
- PACHECO, D. *See* DI BARTOLO, B.
- Packer, L. *See* Branton, D., et al.
- PAGE, C. H., and P. VIGOREUX (Eds.), The International Bureau of Weights and Measures, 1875–1975, *book review of*, 667
- Page, D. E.: Exploratory journey out of the ecliptic plane, 845
- Page, D. L. *See* Ong, D. E., et al.
- Page, R. A. *See* Schiff, A. J., et al.
- Paleomagnetic excursions as magnetostratigraphic horizons: a cautionary note, K. L. Verosub, 48
- Parathyroid hormone and 25-hydroxy vitamin D₃: synergistic and antagonistic effects on renal phosphate transport, J. B. Puschett et al., 473
- Parietal eyes in lizards: zoogeographical correlates, G. C. Gundy et al., 671
- PARKER, I. S. C. *See* LAWS, R. M., et al.
- Parmenter, C. S. *See* Marshall, T. R., et al.
- Parsons, D. F. *See* Hui, S. W.
- Parsons, T. G. *See* Haury, E. W.
- Pasanen, E. G. *See* McFadden, D.
- Pascal, T. A., et al.: Vitamin B₆-responsive and -unresponsive cystathioninuria: two variant molecular forms, 1209
- Pastan, I. *See* Miller, A., et al.
- Patel, C. K. N. *See* Voorhoeve, R. J. H., et al.
- Paton, J. *See* Camhi, J. M., et al.
- Pattern discrimination after lesions of the visual cortex, M. E. Lewis et al., 914
- Patton, C. L. *See* Strickler, J. E.
- PEAKER, M., and J. L. LINZELL, Salt glands in birds and reptiles, *book review of*, 1086
- PEEK, J. *See* BÉDARD, J., et al.
- Peer review and the structure of science (*editorial*), S. MacLane, 617
- PENGELEY, E. T. (Ed.), Circannual clocks, *book review of*, 876
- Peraita, R. *See* Guilleminault, C., et al.
- Perceived visual motion as effective stimulus to pursuit eye movement system, S. Yasui and L. R. Young, 906
- Peripatus: its affinities and its cuticle, R. H. Hackman and M. Goldberg, 582
- PERLMUTTER, A., and S. M. WIDMAYER (Eds.), Theories and experiments in high-energy physics, *book review of*, 1196
- Pernow, B. *See* Hökfelt, T., et al.
- Perry, S. *See* Barr, R. D., et al.
- Perspectives on science and our expectations (*AAAS*), A. Herschman, 1285
- Peschle, C., and M. Condorelli: Biogenesis of erythropoietin: evidence for pro-erythropoietin in a subcellular fraction of kidney, 910
- Pestronk, A. *See* Toyka, K. V., et al.
- Peterson, L. E.: *book review of* X-ray astronomy, 668
- Pfaff, D. W. *See* Conrad, L. C. A.
- Phegasus, L. *See* Lytle, L. D., et al.
- Phillips, M. I. *See* Buggy, J., et al.
- Phosphine on Jupiter and implications for the Great Red Spot, R. G. Prinn and J. S. Lewis, 274
- Phosphoribosylpyrophosphate overproduction, a new metabolic abnormality in the Lesch-Nyhan syndrome, G. H. Reem, 1098
- ³¹P NMR in cancer amended, K. S. Zaner and R. Damadian, 915
- Photoacoustic effect with solids: a theoretical treatment, A. Rosencwaig and A. Gersho, 556
- Physician migration reexamined, R. Stevens et al., 439
- Physics and mathematics of the nervous system, M. CONRAD et al. (Eds.), *book review by* D. Marr, 875
- Phytophagous insects as regulators of forest primary production, W. J. Mattson and N. D. Addy, 515
- PIELOU, E. C., Ecological diversity, *book review of*, 1086
- Pike, M. C. *See* Casagrande, J.
- Pimentel, D., et al.: Energy and land constraints in food protein production, 754
- PIMENTEL, D. (Ed.), Insects, science, and society, *book review of*, 1290
- Planck, R. J., et al.: Temporal pattern shifts in singing birds: a critique, 292
- Planetary brightness changes: evidence for solar variability, G. W. Lockwood, 560
- Plaut, A. G., et al.: *Neisseria gonorrhoeae* and *Neisseria meningitidis*: extracellular enzyme cleaves human immunoglobulin A, 1103
- Poate, J. M. *See* Mayer, J. W., et al.
- Poggio, T. *See* Geiger, G.
- Point of View: agricultural research lacks leaders, 1177; Asilomar conference, 135; right to free inquiry, 768
- Pollen, R. G. STANLEY and H. F. LINSKENS, *book review by* W. A. Jensen, 45
- Polsby, N. W.: *book review of* The brain bank of America, 665
- Polygyny in indigo buntings: a hypothesis tested, M. Carey and V. Nolan, Jr., 1296
- Pontius, P. E.: Mass measurement: a study of anomalies, 379
- Population control (*letters*), N. Uphoff and M. Teitelbaum, 10
- Porjesz, B. *See* Donchin, E., et al.
- Porter, R. *See* Jones, E. G., et al.
- Post, R. M., and F. K. Goodwin: Time-dependent effects of phenothiazines on dopamine turnover in psychiatric patients, 488
- Precambrian eukaryotic organisms: a reassessment of the evidence, A. H. Knoll and E. S. Barghoorn, 52
- Precambrian paleomagnetism: magnetizations reset by the Grenville orogeny, M. O. McWilliams and D. J. Dunlop, 269
- Precision measurement of particulates by light scattering at optical resonance, T. R. Marshall et al., 375
- Preferences for sweet and salty in 9- to 15-year-

INDEX TO VOLUME 190

old and adult humans, J. A. Desor *et al.*, 686
 Prehn, R. T.: Nongenetic variability in susceptibility to oncogenesis, 1095
Preschool IQ, s. H. BROMAN *et al.*, book review by Z. Stein, 548
 Press, F. *See Seymour, R. B.*
 Preti, G. *See Doty, R. L., et al.*
 Prinn, R. G., and J. S. Lewis: Phosphine on Jupiter and implications for the Great Red Spot, 274
 Processing of newly synthesized histone molecules, A. Ruiz-Carrillo *et al.*, 117
 Prokrop, D. J. *See Uitto, J., et al.*
 Proctor, N. H., and J. E. Casida: Organophosphorus and methyl carbamate insecticide teratogenesis: diminished NAD in chicken embryos, 580
 Production of globules in mouse L cells penetrated with hamster sperms, L. C.-T. Lau, 684
 Productivity of organic farms (*letter*), W. Lockertez, 508
 Prostaglandin $F_{2\alpha}$ production by the brain during estrogen-induced secretion of luteinizing hormone, J. S. Roberts and J. A. McCracken, 894
 Prostaglandins in rabbit blastocysts, Z. Dickmann and C. H. Spilman, 997
 Protein crystal structures: quicker, cheaper approaches, D. M. Collins *et al.*, 1047
 Protein transport by the pancreas, S. S. Rothman, 747
 Psychobiology of depression, The, J. MENDELS (*Ed.*), book review by D. L. Garver, 977
 Psychology of depression, The, R. J. FRIEDMAN and M. M. KATZ (*Eds.*), book review by G. L. Engel, 453
 Psychology of sex differences, The, E. E. MACCOBY and C. N. JACKLIN, book review by W. Emmerich, 140
 Pugh, J. E. *See Borek, E., et al.*
 Puschett, J. B., *et al.*: Parathyroid hormone and 25-hydroxy vitamin D₃: synergistic and antagonistic effects on renal phosphate transport, 473

Q and R

Quantum organic chemistry: an alternative view, T. A. Halgren *et al.*, 591
 Rabkin, M. T.: X-ray scanners (*letter*), 1246
 Race differences in intelligence, J. C. LOEHLIN *et al.*, book review by B. K. Eckland, 775
 Radimer, R. *See Stemler, A.*
 Ragland, J. B. *See Sabesin, S. M., et al.*
 Ralph, C. L. *See Gundy, G. C., et al.*
 Ramanathan, V.: Greenhouse effect due to chlorofluorocarbons: climatic implications, 50
 Rand, C. S. *See Smith, C. L., et al.*
 Randall, P. K. *See Ahlskog, J. E., et al.*
 Rasmussen, L., and E. Orias: *Tetrahymena*: growth without phagocytosis, 464
 Ravazzola, M. *See Malaisse-Lagae, F., et al.*
 RAVEN, P. H. *See GILBERT, L. E.*
 Ray, T. S., Jr. *See Strong, D. R., Jr.*
 Rebec, G. V. *See Groves, P. M., et al.*
 Receptive field development and individual experience, P. Gribstein and K. L. Chow, 352
 Rechnitz, G. A.: Membrane electrode probes for biological systems, 234
 Reck, R. A. *See Hamilton, W. L.*
 Reddy, J. K., and T. P. Krishnakantha: Hepatic peroxisome proliferation: induction by two novel compounds structurally unrelated to clofibrate, 787
 Reduced incidence of spontaneous tumors: another statistical analysis, J. Casagrande and M. C. Pike, 808
 Reem, G. H.: Phosphoribosylpyrophosphate overproduction, a new metabolic abnormality in the Lesch Nyhan syndrome, 1098
 Regulation of serum 1 α ,25-dihydroxyvitamin D₃ by calcium and phosphate in the rat, M. R. Hughes *et al.*, 578
 Rence, B., and W. Loher: Arrhythmically singing crickets: thermoperiodic reentrainment after bilobectomy, 385
 Reproductive tract lesions in male mice exposed prenatally to diethylstilbestrol, J. A. McLachlan *et al.*, 991
 Research and public funds (*letter*), S. Garb, 834

Research News: applied mathematics, 773; artificial tornadoes, 257; astronomy in Venice, 368; breeders in Europe, 1279; cell surface protein, 39; chemical pollutants, 1189; cytomegalovirus, 1184; diabetes therapy, 1281; geothermal resources, 370; high-pressure geophysics, 967; image reconstruction, 542, 647; intracellular bacterial toxins, 969; learning and behavior, 367, 544; magnetic monopole reconsidered, 137; malodor counteractants, 870; marihuana and its hazards, 865; neurochemistry, 1076; Nobel prize for chemistry, 772; Nobel prize for physics, 868; Nobel prize for physiology or medicine, 650; Nobel prize in economics, 649; nonmetallic metals, 450; ribosomes, 136, 258; stone art works conservation, 1187; synchrotron radiation, 1074, 1186; thromboxanes, 770
 Response plasticity of lateral geniculate neurons during and after pairing of auditory and visual stimuli, L. M. Chalupa *et al.*, 290
 Retention of nonhelical procollagen containing *cis*-hydroxyproline in rough endoplasmic reticulum, J. Uitto *et al.*, 1202
 Reticulocyte transfer RNA and hemoglobin synthesis, D. W. E. Smith, 529
 Retinal capillaries: proliferation of mural cells in vitro, S. M. Buzney *et al.*, 985
 Retinoic acid binding protein: occurrence in human tumors, D. E. Ong *et al.*, 60
 Rhodes, J. M. *See Adams, J. B., et al.*
 Riboflavin, R.S. RIVLIN (*Ed.*), book review by C. Walsh, 549
 Richmond, R. C., and J. M. Burgers: A new characteristic of life? (*letters*), 613
 Rieckmann, K. H. *See Trenholme, G. M., et al.*
 Riggs, A., and S. M. Kupchan: Nomina generica (*letters*), 612
 Right hemisphere lateralization for emotion in the human brain: interactions with cognition, G. E. Schwartz *et al.*, 286
 Risebrough, R. W. *See Anderson, D. W., et al.*
 RITCEY, R. W. *See BÉDARD, J., et al.*
 Ritzmann, R. *See Camhi, J. M., et al.*
 RIVLIN, R. S. (*Ed.*), Riboflavin, book review of, 549
 RNA phage, N.D. ZINDER (*Ed.*), book review by D. Nathans, 1195
 Robberecht, P. *See Malaisse-Lagae, F., et al.*
 Robbins, W. E. *See Kaplanis, J. N., et al.*
 Roberts, J. S., and J. A. McCracken: Prostaglandin $F_{2\alpha}$ production by the brain during estrogen-induced secretion of luteinizing hormone, 894
 Robertson, D. R. *See Warner, R. R., et al.*
 Robinson, A. L. (*Research News*): image reconstruction, 542, 647; magnetic monopole reconsidered, 137; synchrotron radiation, 1074. *See also* Metz, W. D., and A. L. Robinson
 Robison, W. G., Jr. *See Buzney, S. M., et al.*
 Roche, M.: Venezuela: science and technology for development, 30
 Roedder, E. *See Rosasco, G. J., et al.*
 Rohrer, D. C. *See Weeks, C. M., et al.*
 Rona, P. A., and F. T. Graybeal: Minerals and plate tectonics (*letters*), 422
 Rosalind Franklin and DNA, A. SAYRE, book review by H. Berman, 665
 Rosasco, G. J., *et al.*: Laser-excited Raman spectroscopy for nondestructive partial analysis of individual phases in fluid inclusions in minerals, 557
 Rose, B., and W. R. Loewenstein: Calcium ion distribution in cytoplasm visualized by aequorin: diffusion in cytosol restricted by energized sequestering, 1204
 Rose, H. N., and C. M. McGrath: α -Lactalbumin production in human mammary carcinoma, 673
 Rosencwaig, A., and A. Gershoff: Photoacoustic effect with solids: a theoretical treatment, 556
 Ross, G. T. *See Hansen, J. W., et al.*
 Ross, M. H., and G. Bras: Food preference and length of life, 165
 Roth, J. *See Flier, J. S., et al.*
 Rothman, S. S.: Protein transport by the pancreas, 747
 Rovner, J. S.: Sound production by Nearctic wolf spiders: a substratum-coupled stridulatory mechanism, 1309

Rowland, F. S., *et al.*: The ozone question (*letters*), 1038
 Rowland, L. P.: book review of Exploratory concepts in muscular dystrophy II, 549
 Rowland, N. *See Stricker, E. M., et al.*
 Royal Greenwich Observatory, W. H. MC CREA, book review by D. J. Warner, 1193
 Ruiz-Carrillo, A., *et al.*: Processing of newly synthesized histone molecules, 117
 Russell, M. A.: book review of Cell patterning, 141

S

Sabesin, S. M., *et al.*: Lipoprotein and lecithin: cholesterol acyltransferase changes in galactosamine-induced rat liver injury, 1302
 Sachs, B. D. *See Emery, D. E.*
 Sade, D. S.: book review of Sociobiology, 261
 Sadeh, D. *See Ishay, J.*
 Sadleir, R. M. F. S.: book review of Alces, 550
 St. John, G. A. *See Anbar, M.*
 Sakitt, B.: Locus of short-term visual storage, 1318
 Salmon, S. E. *See Durie, B. G. M.*
 Salt glands in birds and reptiles, M. PEAKER and J. L. LINZELL, book review by V. H. Shoemaker, 1086
 Salvi, R., *et al.*: Auditory fatigue: retrocochlear components, 486
 Sankoff, D., and R. Lessard: Vocabulary richness: sociolinguistic analysis, 689
 San Simeon-Hosgri fault system, coastal California economic and environmental implications, C. A. Hall, Jr., 1291
 Sar, M. *See Martinez-Vargas, M. C., et al.*
 Sarty, M. E.: Interdisciplinary misunderstanding, (*letter*), 836
 Satellite communications—a benefit realized (*editorial*), B. I. Edelson, 333
 Satiety: a graded behavioral phenomenon regulating caloric intake, P. R. McHugh *et al.*, 167
 Satir, B. *See Branton, D., et al.*
 Satir, P.: Ionophore-mediated calcium entry induces mussel gill ciliary arrest, 586. *See also* Branton, D., *et al.*
 SAYRE, A.: Rosalind Franklin and DNA, book review of, 665
 Scarf, H. E. (*Research News*): The 1975 Nobel Prize in economics: resource allocation, 649
 Schaeffer, B. *See Smith, C. L., et al.*
 Schaller, G. B.: book review of Elephants and their habitats, 263
 Scheid, M. P., *et al.*: Differentiation of T cells in nude mice, 1211
 Schiff, A. J., *et al.*: Earthquake damage (*letters*), 736
 Schilling, J.-G. *See Sun, S.-S., et al.*
 Schneer, C. J.: book review of Lord Kelvin and the age of the earth, 1193
 Schneider, S. H., and C. Mass: Volcanic dust, sunspots, and temperature trends, 741
 Schnoes, H. K. *See Holick, M. F., et al.*
 Schoenborn, B. P. *See Norvell, J. C., et al.*
 Schwartz, G. E., *et al.*: Right hemisphere lateralization for emotion in the human brain: interactions with cognition, 286
 Schwende, F. J. *See Sternberg, M., et al.*
 Science and affirmative action (*editorial*), F. P. Thieme, 1161
 Science and our expectations: bicentennial and beyond (*AAAS*), A. Herschman, 651
 Scientific uses of random drilling models, H. W. Menard and G. Sharman, 337
 Scottish philosophy and British physics, 1750–1880, R. OLSON, book review by J. B. Morrell, 778
 Seaver, M. *See Marshall, T. R., et al.*
 Segal, D. S.: Behavioral characterization of *d*- and *l*-amphetamine: neurochemical implications, 475
 Sehgal, P. B., *et al.*: Human interferon production: superinduction by 5,6-dichloro-1- β -D-ribofuranosylbenzimidazole, 282
 Seibert, F. B.: Immunity in cancer, 809
 Seitz, F.: book review of Diffusion in solids, 877
 Self-inhibition by dopaminergic neurons, P. M. Groves *et al.*, 522
 Sensitive period for the development of human binocular vision, M. S. Banks *et al.*, 675

INDEX TO VOLUME 190

- Sessions, G. R., *et al.*: Histamine and radiation-induced taste aversion conditioning, 402
 Sex change and sexual selection, R. R. Warner *et al.*, 633
 Sex differentials in academic salaries (*letters*), M. A. Faia and A. E. Bayer, 1154
 Sex recognition in the crayfish *Procambarus clarkii*, C. Ameyaw-Akumfi and B. A. Hazlett, 1225
 Sexual inhibition is reduced by rostral midbrain lesions in the male rat, T. K. Clark *et al.*, 169
 Seymour, R. B., and F. Press: Age and tenure (*letters*), 219
 Shanidar IV, a Neanderthal flower burial in northern Iraq, R. S. Solecki, 880
 Shannon, T. A. *See* Arents, J., *et al.*
 Shapiro, J.: *book review* of Female of the species, 874
 Shapley, D. (*News and Comment*): aircraft carriers, 130; Americans for Energy Independence, 31; chemistry and simpler uranium enrichment, 645; history of American technology, 763; National Advisory Committee on Oceans and Atmospheres backs industry ocean bills, 254; National Caucus of Labor Committee, 857; "Professional Women and Minorities" report, 254; Sakharov wins Nobel peace prize, 358, 962; science restored to White House favor, 859; Zumwalt and nuclear theology, 131
 Sharma, K. N. *See* Moskowitz, H. W., *et al.*
 Sharma, S. D. *See* Moskowitz, H. W., *et al.*
 Sharman, G. *See* Menard, H. W.
 Shearer, G. M., and G. Cudkowicz: Induction of F₁ hybrid antiparent cytotoxic effector cells: an *in vitro* model for hemopoietic histocompatibility, 890
 Shefner, J. M. *See* Levine, M. W.
 Shek, E. *See* Bodor, N., *et al.*
 Sherk, H. *See* Stryker, M. P.
 Sherr, C. J. *See* Benveniste, R. E., *et al.*
 Shipley, G. G. *See* Deckelbaum, R. J., *et al.*
 Shoemaker, V. H.: *book review* of Salt glands in birds and reptiles, 1086
 Siegel, P. B. *See* Somes, R. G., Jr., *et al.*
 Siegelman, H. W. *See* Wagner, G. J.
 Siekevitz, P. *See* Arents, J., *et al.*
 Silver, M. J. *See* Spector, A. A., *et al.*
 Simkin, D. W. *See* BÉDARD, J., *et al.*
 Simmons, J. H. *See* Rosasco, G. J., *et al.*
 Simon, E. J., *et al.*: Solubilization of a stereospecific opiate-macromolecular complex from rat brain, 389
 Sivitz, M. C. *See* Boden, G., *et al.*
 Sixteenth-century Mexico, M. S. EDMONDSON (Ed.), *book review* by W. Bray, 374
 Skarnes, R. C. *See* Moreau, S. C.
 Skelton, J.: Interfiber forces during wetting and drying, 15
 Sliski, A. *See* Essex, M., *et al.*
 Small, D. M. *See* Deckelbaum, R. J., *et al.*
 Smith, C. L., *et al.*: *Latimeria*, the living coelacanth, is ovoviparous, 1105
 Smith, D. J. *See* Crawford, J. M., *et al.*
 Smith, D. W. E.: Reticulocyte transfer RNA and hemoglobin synthesis, 529
 Smith, J. B. *See* Spector, A. A., *et al.*
 Smith, J. C. *See* Sessions, G. R., *et al.*
 Social class and frequency of XYY and XXY, S. Walzer and P. S. Gerald, 1228
 Sociobiology, E. O. WILSON, *book review* by D. S. Sade, 261
 Soil components, J. E. GIESEKING (Ed.), *book review* by G. Chesters and J. M. Harkin, 456
 Solar neutrinos and variations in the solar luminosity, R. K. Ulrich, 619
 Solecki, R. S.: Shanidar IV, a Neanderthal flower burial in northern Iraq, 880
 Soluble protein of the organic matrix of mollusk shells: a potential template for shell formation, S. Weiner and L. Hood, 987
 Solubilization of a stereospecific opiate-macromolecular complex from rat brain, E. J. Simon *et al.*, 389
 Somatic manifestations of depressive disorders, A. KIEV (Ed.), *book review* by G. L. Engel, 453
 Somatostatin suppresses secretin and pancreatic exocrine secretion, G. Boden *et al.*, 163
 Somes, R. G., Jr., *et al.*: Cholesterol in eggs (*letter*), 737
 Sotello, C. *See* Llinás, R., *et al.*
 Soulsby, E. J. L. *See* Kadivar, D. M. H.
 Sound production by Nearctic wolf spiders: a substratum-coupled stridulatory mechanism, J. S. Rovner, 1309
 Souquet, M. *See* Guilleminault, C., *et al.*
 Source of photosynthetic oxygen in bicarbonate-stimulated Hill reaction, A. Stemler and R. Radmer, 457
 Space colonies and energy supply to the earth, G. K. O'Neill, 943
 Specter, S. *See* Farber, P., *et al.*
 Spector, A. A., *et al.*: Fatty acids, platelets, and microcirculatory obstruction, 490
 Spector, S. *See* Ooshima, A., *et al.*
 Speech perception by the chinchilla: voiced-voiceless distinction in alveolar plosive consonants, P. K. Kuhl and J. D. Miller, 69
 Speth, V. *See* Branton, D., *et al.*
 Spilman, C. H. *See* Dickmann, Z.
 Spleen cells transmit osteopetrosis in mice, D. G. Walker, 785
 Spout of the gray whale: its physical characteristics, G. L. Kooyman *et al.*, 908
 SPUHLER, J. N. *See* LOEHLIN, J. C., *et al.*
 Srinivasan, B. *See* Lewis, R. S., *et al.*
 Staehlin, L. A. *See* Branton, D., *et al.*
 Stage-specific switches in histone synthesis during embryogenesis of the sea urchin, L. H. Cohen *et al.*, 994
 Stages in adolescent involvement in drug use, D. Kandel, 912
 STANLEY, R. G., and H. F. LINSKENS, Pollen, *book review* of, 45
 Stanley, S. M.: Clades versus clones in evolution: why we have sex, 382
 Stearns, C. E.: Dates for the middle stone age of East Africa: a discussion, 809
 Steere, R. L. *See* Branton, D., *et al.*
 Stein, D. G. *See* Lewis, M. E., *et al.*
 Stein, G. *See* Chen, S.-N., *et al.*
 Stein, Z.: *book review* of Preschool IQ, 548
 Steiner, A. L. *See* Kebabian, J. W., *et al.*
 Stell, W. K., *et al.*: Goldfish retina: functional polarization of cone horizontal cell dendrites and synapses, 989
 Stemler, A., and R. Radmer: Source of photosynthetic oxygen in bicarbonate-stimulated Hill reaction, 457
 Sterling, T. D.: Humanizing computerized information systems, 1168
 Sternberg, M., *et al.*: Lysinoalanine: presence in foods and food ingredients, 992
 Stetten, D., Jr. *See* Arents, J., *et al.*
 Stevens, R., *et al.*: Physician migration reexamined, 439
 Stidd, B. M., and K. Cosentino: *Albugo*-like oogonia from the American Carboniferous, 1092
 Stimulating technological innovation (*letter*), Y. T. Li, 10
 Stimulation in vitro by 1,25-dihydroxy-vitamin D₃ of intestinal cell calcium uptake and calcium binding protein, T. Freund and F. Bronner, 1300
 Storm wave climates at Cape Hatteras, North Carolina: recent secular variations, B. P. Hayden, 981
 Stowell, H. *See* Donchin, E., *et al.*
 Strangway, D. W. *See* Koziar, A.
 Stratégic arms debate, J. B. Walsh *et al.*, 1117
 Stratigraphic correlation, G. F. Brockman, 1116
 Stratospheric ozone: the possible effects of tropospheric-stratospheric feedback, W. L. Chameides and J. C. G. Walker, 1294
 Straus, E., *et al.*: Molluscan gastrin: concentration and molecular forms, 687
 Stricker, E. M., *et al.*: Trigeminal lemniscal lesions and the lateral hypothalamic syndrome, 694
 Strickler, J. E., and C. L. Patton: Adenosine 3',5'-monophosphate in reproducing and differentiated trypanosomes, 1110
 Strong, D. R., Jr., and T. S. Ray, Jr.: Host tree location behavior of a tropical vine (*Monstera gigantea*) by skototropism, 804
 Stryker, M. P., and H. Sherk: Modification of cortical orientation selectivity in the cat by restricted visual experience: a reexamination, 904
 Stumpf, W. E. *See* Martinez-Vargas, M. C., *et al.*
 Subcutaneous temperatures: a method of non-invasive sensing, A. H. Barrett and P. C. Myers, 669
 Substance P: localization in the central nervous system and in some primary sensory neurons, T. Hökfelt *et al.*, 889
 Succulent stalks (*letter*), G. N. Tsandoulas, 98
 Sudith, R. L., *et al.*: In vitro demonstration of an endothelial proliferative factor produced by neural cell lines, 682
 Sun, S.-S., *et al.*: Mantle plume mixing along the Reykjanes Ridge axis: lead isotopic evidence, 143
 Support of basic research (*editorial*), W. D. McElroy, 13
 Surtsey, S. FRIDRIKSSON, *book review* by J. A. Downes, 877
 SUTTON, S. *See* KIETZMAN, M. L., *et al.*
 Synthesis of [6-³H]-1 α -hydroxyvitamin D₃ and its metabolism in vivo to [³H]-1 α ,25-dihydroxyvitamin D₃, M. F. Holick *et al.*, 576
 Szmant, H. H. *See* Moravcsik, M. J., *et al.*

T

- Tainer, J. A. *See* Turner, S. R., *et al.*
 Takahashi, H. *See* Anders, E., *et al.*
 Tallan, H. H. *See* Pascal, T. A., *et al.*
 Tamm, I. *See* Sehgal, P. B., *et al.*
 Tatsumoto, M. *See* Sun, S.-S., *et al.*
 Taubman, M. A. *See* Crawford, J. M., *et al.*
 Tavela, T. *See* Holick, M. F., *et al.*
 Taylor, J. D. *See* Dichter, M. A., *et al.*
 Tchen, T. T. *See* Dichter, M. A., *et al.*
 Teitelbaum, M. *See* Uphoff, N.
 Telegadas, K., and G. J. Ferber: Atmospheric concentrations and inventory of krypton-85 in 1973, 882
 TELFER, E. S. *See* BÉDARD, J., *et al.*
 Temporal pattern shifts in singing birds: a critique, R. J. Planck *et al.*, 292
Tetrahymena: growth without phagocytosis, L. Rasmussen and E. Orias, 464
 Theories and experiments in high-energy physics, A. PERLMUTTER and S. M. WIDMAYER (Eds.), *book review* by G. Feinberg, 1196
 Thermal transitions in human plasma low density lipoproteins, R. J. Deckelbaum *et al.*, 392
 Thieme, F. P.: Science and affirmative action (*editorial*), 1161
 Thin films and solid-phase reactions, J. W. Mayer *et al.*, 228
 Third World science and technology (*letters*), M. J. Moravcsik *et al.*, 938
 Thompson, M. J. *See* Kaplanis, J. N., *et al.*
 300 years of Greenwich, *book review* by D. J. Warner, 1193
 Thymus: central role in the immune system of the frog, E. P. Volpe and J. B. Turpen, 1101
 Timberlake, W., and D. L. Grant: Auto-shaping in rats to the presentation of another rat predicting food, 690
 Time-dependent effects of phenothiazines on dopamine turnover in psychiatric patients, R. M. Post and F. K. Goodwin, 488
 Tinker, I.: International Women's Year (*editorial*), 1249
 Todaro, G. J. *See* Benveniste, R. E., *et al.*
 Tomkins, G. M. *See* Insel, P. A., *et al.*
 Torrello, M. *See* Carder, B., *et al.*
 Toyka, K. V., *et al.*: Myasthenia gravis: passive transfer from man to mouse, 397
 Transferrin: internal homology in the amino acid sequence, R. T. A. MacGillivray and K. Brew, 1306
 Transform fault and rift valley from bathyscaphe and diving saucer, ARCYANA, 108
 Transmission of Creutzfeldt-Jakob disease from man to the guinea pig, E. E. Manuelidis, 571
 Trenholme, G. M., *et al.*: Mefloquine (WR 142,490) in the treatment of human malaria, 792
 Trigeminal lemniscal lesions and the lateral hypothalamic syndrome, E. M. Stricker *et al.*, 694
 Trimble, L. E. *See* Voorhoeve, R. J. H., *et al.*
 Trimble, V. (*Research News*): astronomy in Venice, 368
 Truth or power? (*editorial*), K. E. Boulding, 423

INDEX TO VOLUME 190

- Tsandoulas, G. N.: Succulent stalks (*letter*), 98
 TSIEN, R. W. *See* JACK, J. J. B., *et al.*
 Tsipis, K. *See* Walsh, J. B., *et al.*
 Tu, K.-N. *See* Mayer, J. W., *et al.*
 Tumorigenicity of mouse-human diploid hybrids in nude mice, C. M. Croce *et al.*, 1200
 Tunable coherent optical radiation for instrumentation, J. T. Yardley, 223
 Turek, F. W., *et al.*: Melatonin: antigonadal and progonadal effects in male golden hamsters, 280
 Turner, S. R., *et al.*: HETE: new observations (*letter*), 1246
 Turpen, J. B. *See* Volpe, E. P.

U

- Udenfriend, S. *See* Ooshima, A., *et al.*
 Uitto, J., *et al.*: Retention of nonhelical pro-collagen containing *cis*-hydroxyproline in rough endoplasmic reticulum, 1202
 Ulrich, R. K.: Solar neutrinos and variations in the solar luminosity, 619
 Ultrasensitive chemosensory responses by a protozoan to epinephrine and other neurochemicals, D. C. R. Hauser *et al.*, 285
 Uphoff, N., and M. Teitelbaum: Population control (*letters*), 10
 Use of science and our expectations (AAAS), A. Herschman, 1190

V

- Valentine, J. W.: *book review* of Evolution and extinction rate controls, 142
 van Andel, Tj. *See* Ballard, R. D., *et al.*
 Vandermeers, A. *See* Malaisse-Lagae, F., *et al.*
 Vanderpol, A. H., *et al.*: Aerosol chemical parameters and air mass character in the St. Louis region, 570
 van de Sande, J. H. *See* Lin, C. C.
 Varma, P. *See* Minard, R., *et al.*
 Vasil, I. K., and K. L. Giles: Induced transfer of higher plant chloroplasts into fungal protoplasts, 680
 Vasopressin: induced structural change in toad bladder luminal membrane, W. A. Kachadorian *et al.*, 67
 Venezuela: science and technology for development, M. Roche, 30
 Ventricular obstruction: effect on drinking induced by intracranial injection of angiotensin, J. Buggy *et al.*, 72
 Vergnaud Grazzini, C.: ^{18}O changes in foraminifera carbonates during the last 10^5 years in the Mediterranean Sea, 272
 Veresob, K. L.: Paleomagnetic excursions as magnetostratigraphic horizons: a cautionary note, 48
 Vesell, E. S. *See* Hill, R. N., *et al.*
Vespa squamosa: a yellow jacket wasp evolving toward parasitism, J. F. MacDonald and R. W. Matthews, 1003
 Vibrational states of the biopolymer polyglycine II: theory and experiment, B. Fanconi and L. Finegold, 458
 VIGOREUX, P. *See* PAGE, C. H.
 Vilcek, J. *See* Sehgal, P. B., *et al.*
 Visually evoked magnetic fields of the human brain, D. Brenner *et al.*, 480
 Vitamin B₆-responsive and -unresponsive cystathioninuria: two variant molecular forms, T. A. Pascal *et al.*, 1209
 Vocabulary richness: a sociolinguistic analysis, D. Sankoff and R. Lessard, 689
 Volcanic dust, sunspots, and temperature trends, S. H. Schneider and C. Mass, 741
 VOLLRATH, L. *See* KNOWLES, F.

W

- Volpe, E. P., and J. B. Turpen: Thymus: central role in the immune system of the frog, 1101
 Vonder Haar, S. P., and D. S. Gorsline: Flooding frequency of hypersaline coastal environments determined by orbital imagery: geological implications, 147

- VOORHIES, B. *See* MARTIN, M. K.
 Voorhoeve, R. J. H., *et al.*: Hydrogen cyanide production during reduction of nitric oxide over platinum catalysts, 149

- WHITEHOUSE, D., and R. WHITEHOUSE, Archaeological atlas of the world, *book review* of, 551

- WHITEHOUSE, R. *See* WHITEHOUSE, D.
 Who are the handicapped scientists? (AAAS), J. W. Brown, 546

- WIDMAYER, S. M. *See* PERLMUTTER, A.

- Wildman, S. G. *See* Chen, K., *et al.*

- Wiley, R. H.: Multidimensional variation in an avian display: implications for social communication, 482

- Willcott, M. R., III, and R. E. Davis: Determination of molecular conformation in solution, 850

- Willey, G. R.: *book review* of Archaeological atlas of the world, 551

- Williams, D. H.: Mixed blessing (*letter*), 1158

- Williams, R. L. *See* Trenholme, G. M., *et al.*

- Williamson, S. J. *See* Brenner, D., *et al.*

- WILLOWS, A. O. D. *See* CORNING, W. C., *et al.*

- Wilsdorf, D. K.: NSF funding patterns (*letter*), 1248

- Wilson, C. J. *See* Groves, P. M., *et al.*

- Wilson, E. O.: Enemy specification in the alarm-recruitment system of an ant, 798

- WILSON, E. O., Sociobiology, *book review* of, 261

- Wilson, F. R. *See* Dole, M., *et al.*

- Wilson, J. P. *See* Evans, E. F.

- Wilson, R.: Charging for radioactive emissions, 460

- Winick, M., *et al.*: Malnutrition and environmental enrichment by early adoption, 1173

- Wiśniewski, H. M., *et al.*: Infectious etiology of neuritic (senile) plaques in mice, 1108

- WOLFE, M. L. *See* BÉDARD, J., *et al.*

- Wood versus fossil fuel for excess carbon dioxide (*letter*), J. A. S. Adams *et al.*, 1154

- Woods, L. A., Jr. *See* Anderson, D. W., *et al.*

- World food prospect, The, L. R. Brown, 1053

- Wu, B. C., *et al.*: Enhancement of mouse cytomegalovirus infection during host-versus-graft reaction, 56

- Wurst, G. Z. *See* Gundy, G. C., *et al.*

- Wurtzite: long-period polytypes in disordered 2H crystals, M. E. Fleet, 885

X, Y, and Z

- X-ray scanners (*letter*), M. T. Rabkin, 1246
 X-ray astronomy, R. GIACCONI and H. GURSKY (Eds.), *book review* by L. E. Peterson, 668

- Yalow, R. S. *See* Straus, E., *et al.*

- Yang, W. *See* Minard, R., *et al.*

- Yardley, J. T.: Tunable coherent optical radiation for instrumentation, 223

- Yasui, S., and L. R. Young: Perceived visual motion as effective stimulus to pursuit eye movement system, 906

- Yeh, J., *et al.*: Detection of an antigen related to Mason-Pfizer virus in malignant human breast tumors, 583

- Yoshida, A. *See* Kirkman, H. N., *et al.*

- Young, L. R. *See* Yasui, S.

- Young, S. J. *See* Groves, P. M., *et al.*

- Zaner, K. S., and R. Damadian: ^{31}P NMR in cancer amended, 915

- Zapp, J. A., Jr.: HMPA: a possible carcinogen (*letter*), 422

- Zeigler, H. P. *See* Stricker, E. M., *et al.*

- Zigmund, M. J. *See* Stricker, E. M., *et al.*

- Ziman, J. *See* Moravcsik, M. J., *et al.*

- Zimmerman, N. H., and M. Menaker: Neural connections of sparrow pineal: role in circadian control of activity, 477

- Zinder, N. D. *See* Enea, V.

- ZINDER, N. D. (Ed.), RNA phage, *book review* of, 1195

- Zoller, W. H. *See* Mroz, E. J.

- Zweidler, A. *See* Cohen, L. H., *et al.*

- ZUBIN, J. *See* KIETZMAN, M. L., *et al.*