
SCIENCE

Index to Volume 147
January–March 1965

Editorial Board

ROBERT L. BOWMAN	WILLARD F. LIBBY
MELVIN CALVIN	GORDON J. F. MACDONALD
JOSEPH W. CHAMBERLAIN	EVERETT I. MENDELSON
FARRINGTON DANIELS	NEAL E. MILLER
JOHN T. EDSALL	JOHN R. PIERCE
DAVID R. GODDARD	COLIN S. PITTENDRIGH
EMIL HAURY	KENNETH S. PITZER
ALEXANDER HOLLAENDER	ALEXANDER RICH
ROBERT JASTROW	DEWITT STETTIN, JR.
EDWIN M. LERNER II	EDWARD L. TATUM
CLARENCE M. ZENER	

Editorial Staff

DAEL WOLFLE <i>Publisher</i>	HANS NUSSBAUM <i>Business Manager</i>
---------------------------------	--

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 Washington, D.C., by National Publishing Company
Copyright 1965 by the American Association for the Advancement of Science

<i>No.</i>	<i>Date of Issue</i>	<i>Pages</i>	<i>No.</i>	<i>Date of Issue</i>	<i>Pages</i>
3653	1 January	1- 84	3660	19 February	776- 972
3654	8 January	85-220	3661	26 February	973-1072
3655	15 January	221-328	3662	5 March	1073-1180
3656	22 January	329-448	3663	12 March	1181-1380
3657	29 January	449-532	3664	19 March	1381-1488
3658	5 February	533-664	3665	26 March	1489-1632
3659	12 February	665-776			

Names of authors of books reviewed are printed in SMALL CAPITALS.

A

- AAAS: 1964 Montreal meeting, 891; Council meeting, 892; officers, committees, and representatives for 1965, 895; president-elect, 891; reports of sections and societies, 918; reports of symposiums, 910
- Aaboe, A.: *book review* of Archimedes in the Middle Ages, vol. 1, 856
- Abell, C. W., *et al.*: Uracil mustard: a potent inducer of lung tumors in mice, 1443
- Abelson, P. H. (*editorials*): Air pollution, 1527; Economic benefits from oceanographic research, 461; The Martian environment, 683; Natural beauty and conservation, 1245; Science, technology, and the gold drain, 989; Water for North America, 113
- Absence of taste-bud papillae in familial dysautonomia, A. Smith *et al.*, 1040
- Academic organization of science (*letter*), R. B. Fischer, 9
- Acid phosphatase-rich granules in human lymphocytes induced by phytohemagglutinin, R. Hirschhorn *et al.*, 55
- Ackerman, G. A. *See* St. Pierre, R. L.
- Activation heat in muscle: method for determination, C. L. Gibbs and N. V. Ricciuti, 162
- Act of creation, The, A. KOESTLER, *book review* by E. R. Hilgard, 37
- ADAMS, R. M. (Ed.), Boron, metallo-boron compounds, and boranes, *book review* of, 857
- Addendum (*letter*), J. W. Hinkley, 680
- Adelson, E., and J. J. McGrath: Galileo: falsified record (*letter*), 459
- Adequate rate of growth, An (*editorial*), D. Wolfe, 1399
- Adrenal responses to fighting in mice: separation of physical and psychological causes, F. H. Bronson and B. E. Eleftheriou, 627
- Advances in experimental social psychology, vol. 1, L. BERKOWITZ (Ed.), *book review* by R. M. Baron, 140
- Advances in heat transfer, vol. 1, T. F. IRVINE, JR., and J. P. HARNETT (Eds.), *book review* by E. J. Davis, 493
- Advances in hydrosience, v. T. CHOW (Ed.), *book review* by W. C. Walton, 854
- After Lysenko (*letter*), W. Hirsch, 358
- Agatep, A. O. *See* Baldev, B., *et al.*
- Agnew, J.: *book review* of Elements of ordinary differential equations, 390
- Agrobacterium tumefaciens*: thermal inactivation of tumor-producing ability, J. A. Lippincott and B. B. Lippincott, 1578
- Aid for the University of Skopje (*letter*), M. R. Newlin, 238
- Air pollution (*editorial*), P. H. Abelson, 1527
- Air pollution and the decay of monuments (*letter*), E. M. Winkler, 459
- Ajello, L. *See* Sotgui, G., *et al.*
- Alaskan earthquake, 27 March 1964: vertical extent of faulting and elastic strain energy release, F. Press and D. Jackson, 867
- Albinism and water escape performance in mice, G. W. Meier and D. P. Foshee; H. D. Winston and G. Lindzey, 307
- Albright, J. F. *See* Takata, C., *et al.*
- Alden, R. H.: Manpower in biomedical science (*letter*), 1523
- ALDER, H., and E. B. ROESSLER, Introduction to probability and statistics, *book review* of, 1138

- ALEKSANDROV, A. D., *et al.*, Mathematics: its contents, methods, and meaning, vols. 1-3, *book review of*, 722
- Alexander, D. E. *See* Poneleit, C. G.
- Alexander, R. S.: The bias towards research (*letter*), 1087
- Allredge, L. R. *See* Ostenso, N. A., *et al.*
- Allen, M. B.: Marine microorganisms (*meeting report*), 638
- Allgeie, D. L. *See* Brewer, J. H.
- Allott, G.: Massivity in financing research (*letter*), 109
- Alonso-deFlorida, F., and J. del Castillo: Anaphylactic reaction of denervated skeletal muscle in the guinea pig, 1155
- Alt, F. L.: Mechanical translation: U.S.-Japan joint conference (*meeting report*), 1599
- AMELINCKX, S., The direct observations of dislocations, *book review of*, 1134
- American cockroach sex attractant, M. Jacobson and M. Beroza, 748
- American research vessel (*letter*), R. R. Hinchcliffe, 109
- Amino acids released from the cerebral cortex in relation to its state of activation, H. H. Jasper *et al.*, 1448
- Analysis, vol. 1, E. HILLE, *book review by* J. L. Doob, 1135
- Analytical chemistry in nuclear technology (*meeting report*), C. D. Susano *et al.*, 523
- Anaphylactic reaction of denervated skeletal muscle in the guinea pig, F. Alonso-deFlorida and J. del Castillo, 1155
- Anchel, M. *See* Takeshita, H.
- Ancient oyster shells on the Atlantic continental shelf, A. S. Merrill *et al.*, 398
- ANDEL, VAN, T. H., and G. G. SHOR (Eds.), Marine geology of the Gulf of California, *book review of*, 725
- Anderson, B.: *book review of* Social science research in Latin America, 1564
- Anderson, C. A. *See* Lovering, J. F.
- ANDERSON, E. B. *See* KNISELY, R. M., *et al.*
- Anderson, J. F., and W. R. Horsfall: Dimorphic development of transplanted juvenile gonads of mosquitoes, 624
- Anderson, L. E.: *book review of* The mosses of Michigan, 389
- Anderson, T. F.: Biophysics (*meeting report*), 186
- Andrews, J. T. *See* Falconer, G., *et al.*
- Animal communication, H. FRINGS and M. FRINGS, *book review by* T. A. Sebeok, 492
- Animal communication, T. A. Sebeok, 1006
- Anomalous abundance of upper atmosphere sodium, 1964, C. R. Burnett, 736
- Ansbacher, S.: *Tempora mutantur (letter)*, 9
- ANSELL, G. B., and J. N. HAWTHORNE, Phospholipids: chemistry, metabolism, and function, *book review of*, 286
- Antarctic snow and ice studies, M. MELLOR (Ed.), *book review by* A. D. Howard, 142
- Antibiotics: the duplication problem (*letter*), S. A. Waksman, 1396
- Antibodies against the component polypeptide chains of bovine insulin, Y. Yagi *et al.*, 617
- Antimicrobial agents and chemotherapy (*meeting report*), M. H. Lepper and D. Perlman, 532
- Apgar, J. *See* Holley, R. W., *et al.*
- Appleyard, R. K.: Biomedical sciences in Europe (*letter*), 556
- APPLEZWEIG, N., Steroid drugs, vol. 2, *book review of*, 596
- Approaches to paleoecology, J. IMBRIE and N. NEWELL (Eds.), *book review by* E. S. Deevey, 592
- Arbovirus hemagglutinin inhibitor in acetone-extracted serums from normal chickens, P. Holden *et al.*, 169
- Archimedes in the Middle Ages, vol. 1, M. CLAGGET, *book review by* A. Aaboe, 856
- ARENSBERG, C. M., and S. T. KIMBALL, Culture and community, *book review of*, 1022
- ARENSBERG, C. M., and A. H. NIEHOFF, Introducing social change, *book review of*, 1027
- Ascher, M. *See* Ascher, R.
- Ascher, R., and M. Ascher: Recognizing the emergence of man, 243
- Aspects of theoretical mineralogy in the U.S.S.R., M. H. BATTEY and S. I. TOMKEIFF (Eds.), *book review by* H. Winchell, 498
- Assumption (*letter*), E. S. Castle, 459
- Astronomy overlooked (*letter*), B. L. Klock, 7
- Atlas of the moon: astronomy-astronautics, v. DE CALLATAY, *book review by* F. K. Edmondson, 1027
- Atmospheric research: a powerful concept emerges, W. O. Roberts, 1093
- Atomic collision processes, M. R. C. MCDOWELL (Ed.), *book review by* S. Geltman, 594
- Atomic migration in crystals, L. A. GIRIFALCO, *book review by* L. Slifkin, 1132
- Attrep, M., Jr. *See* Kuroda, P. K., *et al.*

B

- Bacteria on leaf surfaces and in intercellular leaf spaces, E. H. Barnes, 1151
- Bahcall, J. N.: Observational neutrino astronomy, 115
- Baker, W. K.: *book review of* Genetics and man, 725
- Baldev, B., *et al.*: Gibberellin production in pea seeds developing in excised pods: effect of growth retardant AMO-1618, 155
- Banus, M. D.: Pressure dependence of the alpha-beta transition temperature in silver selenide, 732
- Barghoorn, E. S., and S. A. Tyler: Microorganisms from the Gunflint Chert, 563
- Barnes, E. H.: Bacteria on leaf surfaces and in intercellular leaf spaces, 1151
- Barnes, F. S.: The poor are getting richer (*letter*), 823
- Baron, R. M.: *book review of* Advances in experimental psychology, vol. 1, 140
- Baron, S. H. *See* Schoenfeld, W. N.
- Barone, T. F. *See* Pollard, E. C., *et al.*
- Barratt, P. E. H. *See* Beh, H. C.
- Barrett, A. H.: *book review of* Fundamentals of microwave electronics, 1436
- Barry, D. G. *See* Hoover, S. R., *et al.*
- BARRY, J. M., Molecular biology: genes and the chemical control of living cells, *book review of*, 141
- BARTLE, R. G., The elements of real analysis, *book review of*, 497
- Barut, A. O.: *book review of* Quantum theory and the many-body problem, 1275
- Basis of human evolution, The, B. S. KRAUS, *book review by* H. M. Slatiss, 389
- Bates, C. H., *et al.*: High-pressure transitions of germanium and a new high-pressure form of germanium, 860
- BATTEY, M. H., and S. I. TOMKEIFF (Eds.), Aspects of theoretical mineralogy in the U.S.S.R., *book review of*, 498
- Battig, W. F.: For complexity (*letter*), 558
- Bauer, S. H. *See* Mathewes, D. A., Jr., *et al.*
- Baumann, F. *See* Smith, T. G., *et al.*
- Baxendale, J. H., and G. P. Gilbert: Electron synthesis in the γ -radiolysis of water vapor, 1571
- Bearden, A. J.: *book review of* Mössbauer effect: principles and applications, 1139
- Beck, J. N. *See* Kuroda, P. K., *et al.*
- Becker, E. D.: *book review of* Structure and properties of biomolecules and biological systems, 1437
- BECKER, R., Electromagnetic field and interactions, vols. 1 and 2, *book review of*, 1138
- BEDINI, S. A., Early American scientific instruments and their makers, *book review of*, 41
- Beh, H. C., and P. E. H. Barratt: Discrimination and conditioning during sleep as indicated by the electroencephalogram, 1470
- Behle, W. H.: *book review of* The lives of desert animals in Joshua Tree National Monument, 1278
- BELFORD, R. L. *See* RABINOWITCH, E.
- Bell, E. *See* Scott, R. B.
- Benacerraf, B. *See* Levine, B. B.
- Bennett, E. L. *See* Krech, D.
- BERKNER, L. V., The scientific age: the impact of science on society, *book review of*, 1274
- BERKOWITZ, L. (Ed.), Advances in experimental social psychology, vol. 1, *book review of*, 140
- BERMANT, A. F., A course of mathematical analysis, vol. 2, *book review of*, 1563
- Berner, R. A.: Dolomitization of the mid-Pacific atolls, 1297
- Bernfield, M. R., and M. W. Nirenberg: RNA codewords and protein synthesis, 479
- Bernstein, I. S., and N. B. Guilloid: The stump-tail macaque as a laboratory subject (*letter*), 824
- Bernstein, M. T. *See* Landy, M., *et al.*
- Beroza, M. *See* Jacobson, M.
- Beswick, D. E. *See* Griffith, L. J., *et al.*
- Bethe, H. A. *See* Yuan, L. C. L.
- Bevilacqua, E. M., and P. M. Norling: Hexanedione from hydrocarbon polymer oxidation, 289
- Beware the tax collector (*letter*), L. P. McCarty, 986
- Bhargava, S. C.: Inhibition of flowering by light in the short-day plant *Salvia occidentalis*, 60
- Bias towards research, The (*letter*), R. S. Alexander, 1087
- BICKLEY, W. G., and R. S. H. G. THOMPSON, Matrices: their meaning and manipulation, *book review of*, 285
- Bierly, E. W., and A. W. Klement, Jr.: Radioactive fallout from nuclear weapons tests (*meeting report*), 1057
- Bigeleison, J.: Chemistry of isotopes, 463
- BIKALES, N. M. *See* MARK, H. F., *et al.*
- Billingham, R. E., *et al.*: Transplantation immunity of gestational origin in infant rats, 514
- Bioastronautics and space (*meeting report*), J. Harmon, 314
- Biochemical approach to life, The, F. R. JEVONS, *book review by* W. J. van Wagtenonk, 1275
- Biochemical aspects of hormone action, The, A. B. EISENSTEIN (Ed.) *book review by* R. K. Crane, 601
- Biochemical disorders in human disease, R. H. S. THOMPSON and E. J. KING (Eds.), *book review by* H. A. Harper, 853
- Biochemistry and behavior, S. EIDUSON *et al.*, *book review by* D. Krech and E. L. Bennett, 1432
- Biochemistry of semen and of the male reproductive tract, The, T. MANN, *book review by* G. W. Salisbury, 727

- Bioclimatology (*meeting report*), F. Sargent, II, and S. Itoh, 761
- Bioelectric control of bioluminescence in the dinoflagellate *Noctiluca*, R. Eckert, 1140
- Bioenergetics (*meeting report*), W. C. McMurray, 413
- Biogeochemical methods of prospecting, D. P. MALYUGA, *book review* by H. E. Hawkes, 727
- Biological nitrogen fixation (*meeting report*), W. A. Bulen, 310
- Biology of the Antarctic seas, vol. 1, M. O. LEE (Ed.), *book review* by R. L. Wigley, 284
- Biomedical sciences in Europe (*letter*), R. K. Appleyard, 556
- Biophysics (*meeting report*), T. F. Anderson, 186
- Biosynthesis of alkaloids, E. Leete, 1000
- Biosynthesis of steroids, terpenes, and acetogenins, The, J. H. RICHARDS and J. B. HENDRICKSON, *book review* by L. L. Engel, 142
- Bipolarity of information transfer from the *Salmonella typhimurium* chromosome, P. Margolin, 1456
- Blacic, J. D. *See* Griggs, D. T.
- BLAU, P. M., Exchange and power in social life, *book review* of, 137
- Blau, S. *See* Pickwell, G. V., *et al.*
- Blazer, J. A. *See* Pickwell, G. V., *et al.*
- BLECHSCHMIDT, E., The human embryo, *book review* of, 857
- Blood of a cockroach: unusual cellular behavior, H. Ritter, Jr., 518
- Blue-green algae: fine structure of the gas vacuoles, C. C. Bowen and T. E. Jensen, 1460
- Blumer, M., and D. W. Thomas: Phytadienes in zooplankton, 1148
- Bock, R. *See* Marcus, L., *et al.*
- Body composition and coat color correlation in different phenotypes of "viable yellow" mice, G. L. Wolff, 1145
- Bohr, D. F. *See* Filo, R. S., *et al.*
- Bond, A. C.: Space simulation: man-rated testing and vacuum generation (*meeting report*), 523
- Bonney, W. A. *See* Noyes, R. W., *et al.*
- Boron: another form, R. H. Wentorf, Jr., 49
- Boron, metallo-boron compounds, and boranes, R. M. ADAMS (Eds.), *book review* by G. Urry, 857
- Borsos, T. *See* Frank, M. M., *et al.*
- Botelho, S. Y.: Medicine in the year 2000 (*meeting report*), 1164
- Botulinum toxin, type A: effects on central nervous system, E. H. Polley *et al.*, 1036
- BOULDING, K., The meaning of the 20th century: the great transition, *book review* of, 1274
- Bowen, C. C., and T. E. Jensen: Blue-green algae: fine structure of the gas vacuoles, 1460
- Bowman, R. L. *See* Chen, R. F. *See also* Prager, D. J., *et al.*
- Bowyer, S., *et al.* Cosmic x-ray sources, 394
- BRAAE, R., Matrix algebra for electrical engineers, *book review* of, 285
- Brabv, L. A. *See* Palmer, H. E., *et al.*
- Bradley, S. E. *See* Meyer, K., *et al.*
- Brady, L. J. *See* Susano, C. D., *et al.*
- Brain tumors (gliomas) induced in hamsters by Bryan's strain of Rous sarcoma virus, G. F. Rabotti *et al.*, 504
- BRANCAZIO, P. J., and A. G. W. CAMERON (Eds.), The origin and evolution of atmospheres and oceans, *book review* of, 1021
- BRANDT, J. C., and P. W. HODGE, Solar system astrophysics, *book review* of, 386
- Bratton, C. B., *et al.*: Nuclear magnetic resonance studies of living muscle, 738
- Bretthauer, R. *See* Marcus, L., *et al.*
- Brewer, J. H., and D. L. Allgeier: Disposable hydrogen generator, 1033
- BRIGGS, A. E. *See* HOLLAND W. C., *et al.*
- Briggs, L. C.: *book review* of Culture and community, 1022
- Brightness discrimination in the collared lizard, V. J. Vance *et al.*, 758
- Brockman, H. E., and W. Goben: Mutagenicity of a monofunctional alkylating agent derivative of acridine in *Neurospora*, 750
- Brody, J. A., *et al.*: Soviet search for viruses that cause chronic neurologic diseases in the U.S.S.R., 1114
- Bronson, F. H., and B. E. Eleftheriou: Adrenal responses to fighting in mice: separation of physical and psychological causes, 627
- Bross, I. D. J.: NIH career awards (*letter*), 1395
- Brown, G. M., and H. A. Levy: α -D-glucose: precise determination of crystal and molecular structure by neutron-diffraction analysis, 1038
- Brown, W. F., Jr., Magnetism: a decade of conferences (*meeting report*), 73
- Bryson, R. A., *et al.*: Radiocarbon and soil evidence of former forest in the southern Canadian tundra, 46
- Bryson, V., and H. J. Vogel: Evolving genes and proteins, 68
- BUDY, A. M. *See* MCLEAN, F. C.
- Buettner-Janusch, J., and R. L. Hill: Molecules and monkeys, 836
- Bulen, W. A.: Biological nitrogen fixation (*meeting report*), 310
- BULL, H. B., An introduction to physical biochemistry, *book review* of, 139
- Bullard, R. W. *See* van Beaumont, W.
- Bunnett, J. F.: *book review* of Organic name reactions, 726
- Bunting, S. L. *See* Peacock, A. C., *et al.*
- BURGES, N. A. *See* TUTIN, T. G., *et al.*
- Burnett, C. R.: Anomalous abundance of upper atmosphere sodium, 736
- BURNS, N. M., *et al.*, Unusual environments and human behavior, *book review* of, 855
- Bursa of Fabricus in chickens: possible humoral factor, R. L. St. Pierre and G. A. Ackerman, 1307
- Byram, E. T. *See* Bowyer, S., *et al.*
- C**
- Cahill, L. J.: Magnetic fields in interplanetary space, 991
- Caillet, J. *See* Pullman, B., *et al.*
- Calam, D. H., and R. K. Gallow: Crown gall and tomatine, 174
- Calculus for journal publishers, A (*letter*), A. M. Russell, 110
- Calhoun, D. H.: *book review* of Schools in an age of mass culture, 1274
- Callanish, a Scottish Stonehenge, G. S. Hawkins, 127
- Calloway, D. H.: Minimum ecological systems for man (*meeting report*), 184
- CALLOWAY, J. M., Fundamentals of modern mathematics, *book review* of, 43
- Calorimetry (*meeting report*), W. N. Hubbard, 312
- Calvin, M. *See* Schimpl, A., *et al.* *See also* Steinman, G., *et al.*
- CAMERON, A. G. W. *See* BRANCAZIO, P. J., CAMERON, I. L. *See* Padilla, G. M., *et al.*
- Campbell, C. B. G. *See* Jane, J. A., *et al.*
- Campbell, T. L.: Long-lived solid-state circuits (*meeting report*), 1472
- "Cancer virus" feared (*letter*), F. J. Pirone, 459
- CANHAM, E. D., Government and manpower, *book review* of, 851
- Carbonate in hydroxylapatite, D. R. Simpson, 501
- Carcinogenic aromatic hydrocarbons: special vulnerability of rats, C. B. Huggins *et al.*, 1153
- Carpenter, E. W.: Explosion seismology, 363
- Carrison, L. C. *See* Sclar, C. B., *et al.*
- Carterette, E. C., *et al.*: Lateralization of sounds at the unstimulated ear opposite a noise-adapted ear, 63
- Castle, E. S.: Assumption (*letter*), 459
- Cell synchrony (*meeting report*), G. M. Padilla *et al.*, 175
- Cesium-37 in Alaskans, S. Novick, 1598
- CHAMBERLAIN, J. W., Motion of charged particles in the earth's magnetic field, *book review* of, 1567
- Chambers, J. A. *See* Datta, L., *et al.*
- CHAMBERS, R. M. *See* BURNS, N. M., *et al.*
- Changes in the tail feathers of the adolescent lyrebird, L. H. Smith, 510
- Changing environment of science, The, A. T. Waterman, 13
- Charge-transfer self-complex formed by 8-azaguanine, W. M. Macintyre, 507
- Chave, K. E., and B. D. Wheeler: Mineralogic changes during growth in the red alga, *Clathromorphum compactum*, 621
- Chemical background of silicones, J. F. Hyde, 829
- Chemistry of complex cyanides, The, M. H. FORD-SMITH, *book review* by W. K. Wilmarth, 1025
- Chemistry of isotopes, J. Bigeleison, 463
- Chen, J. Y. C. *See* Pickwell, G. V., *et al.*
- Chen, R. F., and R. L. Bowman: Fluorescence polarization: measurement with ultraviolet-polarizing filters in a spectrofluorometer, 729; *erratum*, 1020
- CHODOROW, M., and C. SUSSKIND, Fundamentals of microwave electronics, *book review* of, 1436
- Choice behavior in rhesus monkeys: effect of stimulation during the first month of life, G. P. Sackett *et al.*, 304
- Cholesterol biosynthesis: mevalonate synthesis inhibited by bile salts, G. M. Fimognari and V. W. Rodwell, 1038
- Chow, T. J., and M. S. Johnstone: Lead isotopes in gasoline and aerosols of Los Angeles basin, California, 502
- CHOW, V. T. (Ed.), Advances in hydro-science, *book review* of, 854
- Chubb, T. A. *See* Bowyer, S., *et al.*
- Churchman, C. W.: *book review* of Conduct of inquiry: methodology for behavioral science, 283
- Ciguatera fish poison: a cholinesterase inhibitor, K. Li, 1580
- Ciuchta, H. P. *See* Polley, E. H., *et al.*
- CLAGGET, M., Archimedes in the Middle Ages, vol. 1, *book review* of, 856
- CLARKE, C. A., Genetics for the clinician, *book review* of, 595
- Clarke, S. P., Jr.: *book review* of Research in geophysics, vol. 2, 286
- Claverie, P. *See* Pullman, B., *et al.*
- CLEAVES, E. T. *See* CLOOS, E., *et al.*
- Cleft palate in the mouse: a teratogenic index of glucocorticoid potency, L. Pinsky and A. M. DiGeorge, 402
- Clewe, T. H. *See* Noyes, R. W., *et al.*
- CLOOS, E., *et al.*, The geology of Howard and Montgomery counties, *book review* of, 497
- Cloud, P. E., Jr.: *book review* of The origin and evolution of atmospheres and oceans, 1021
- Coastline of England and Wales, The, J. A. STEERS, *book review* by R. J. Russell, 1562
- Cobine, J. D.: *book review* of Investigation into electrical discharges in gases, 1028
- Cockcroft, J. D.: *book review* of Education and the atom: an evaluation

- of government's role in science education, especially as applied to nuclear energy; Nuclear power, U.S.A.; Radioisotopes and radiation: recent advances in medicine, agriculture, and industry; Research, U.S.A.: knowledge for the future, 721
- Coe, W. R.: Tikal, Guatamala, and emergent Maya civilization, 1401
- Coesite discovered in tektites, L. S. Walter, 1029
- Cofer, C. N.: *book review* of New directions in the study of languages, 1023
- COLE, D. M., and D. W. COX, Islands in space: the challenge of the planetoids, 1131
- Collier, J. R.: Ribonucleic acids of the *Ilyanassa* embryo, 150
- Colloque sur le paléogène, *book review* of, by J. W. Durham, 1435
- Colombo, U., *et al.*: Magnetic oxidation: a proposed mechanism, 1033
- Colvinaux, P. A. *See* Donn, W. L., *et al.*
- Common trees of Puerto Rico and the Virgin Islands, E. L. LITTLE, JR., and F. H. WADSWORTH, *book review* by R. A. Howard, 38
- Communications in unusual media (*meeting report*), A. Orange, 181
- Company budgets for basic research (*letter*), J. F. G. Hicks, 985
- Complement and hemolytic antibody: changes in their activity induced by mercaptoethanol, M. M. Frank *et al.*, 742
- Complement: inactivation of second component by *p*-hydroxymercuribenzoate, M. A. Leon, 1035
- Conduct of inquiry: methodology for behavioral science, The, A. KAPLAN, *book review* by C. W. Churchman, 283
- Constant volume, self-filling nanoliter pipette: construction and calibration, D. J. Prager *et al.*, 606
- Contact-induced cytotoxicity by lymphoid cells containing foreign isoantigens, E. Möller, 873
- Cooper, D. Y., *et al.*: Photochemical action spectrum of the terminal oxidase of mixed function oxidase systems, 400
- Cooper, M. *See* Pickwell, G. V., *et al.*
- Cooperation in change, W. H. GOODENOUGH, *book review* by J. P. Gillin, 1027
- Coroniti, S. C., and W. H. Fischer: Meetings: do's and don'ts (*letters*), 679
- Correlations of particles emitted in nuclear reactions (*meeting report*), H. G. Pugh, 177
- Cosmic x-ray sources, S. Bowyer *et al.*, 394
- Costantin, L. L., *et al.*: Localization of calcium-accumulating structures in striated muscle fibers, 158
- COTRELL, A. H., Theory of crystal dislocations, *book review* of, 1023
- Course of mathematical analysis, A, vol. 2, A. F. BERMANT, *book review* by F. Oberhettinger, 1563
- Cover pictures: bioluminescent flash (5 Mar.); computer snail (12 Mar.); concretions (19 Feb.); defects in graphite (12 Feb.); Father Time (1 Jan.); feather transformation (29 Jan.); foot of a continent (8 Jan.); lying stones (5 Feb.); salt crystals (15 Jan.); sea porpoise (26 Feb.); Tikal (19 Mar.); ultrahigh vacuum components (26 Mar.); unstretched elastomer (22 Jan.)
- Cox, A: *book review* of Paleomagnetism and its application to geological and geophysical problems, 494
- COX, D. W. *See* COLE, D. M.
- Crane, J. C., and J. van Overbeek: Kinin-induced parthenocarp in the fig, *Ficus carica* L., 1468
- Crane, R. K.: Biochemical aspects of hormone action, *book review* of, 601
- Crawhall, J. C., and C. J. Thompson: Cystinuria: effect of D-penicillamine on plasma and urinary cystine concentrations, 1459
- CREWE, A. V., and J. J. KATZ, Research, U.S.A.: knowledge for the future, *book review* of, 721
- Crick, M. F. C. *See* Pickwell, G. V., *et al.*
- Crisp, D. J.: *book review* of The ecology of rocky shores, 601
- Critchfield, C. L.: *book review* of The eightfold way, 1026
- Cross-correlation analysis of electroencephalographic potentials and slow membrane transients, M. R. Klee *et al.*, 519
- Crown gall and tomatine, D. H. Calam and R. K. Callow, 174
- Crystal packing of molecules, D. E. Williams, 605
- Crystalline human urokinase: some properties, A. Lesuk *et al.*, 880
- Crystallization and molecular folding, P. H. Lindenmeyer, 1256
- Cudkowicz, G., and J. H. Stimpfling: Hybrid resistance controlled by H-2 region: correction of data, 1056
- Culture and community, C. M. ARENSBERG and S. T. KIMBALL, *book review* by L. C. Briggs, 1022
- Cummings, M. R. *See* Pickwell, G. V., *et al.*
- CUNNINGHAME, J. G., Introduction to the atomic nucleus, *book review* of, 1567
- CURTIN, D. Y. *See* SHRINER, R. L., *et al.*
- Cyanamide formation under primitive earth conditions, A. Schimpl *et al.*, 149
- Cyclic variations in the digestive gland and glandular oviduct of chitons (*Mollusca*), A. L. Lawrence *et al.*, 508
- Cystinuria: effect of D-penicillamine on plasma and urinary cystine concentrations, J. C. Crawhall and C. J. Thompson, 1459
- Cytawa, J. *See* Teitelbaum, P.

D

- Dachille, F. *See* Bates, C. H., *et al.*
- Dahl, A. O.: *book review* of Pollen physiology and fertilization, 602
- Dahlström, A. B., and B. E. M. Zetterström: Noradrenaline stores in nerve terminal of the spleen: changes during hemorrhagic shock, 1583
- Damian, R. T.: Molecular mimicry in biological adaptation (*letter*), 824
- Dancis, J., *See* Smith, A., *et al.*
- DARLINGTON, C. D., Genetics and man, *book review* of, 725
- DARLINGTON, H. T., The mosses of Michigan, *book review* of, 389
- Darwin, J. T., Jr.: *book review* of Integral equation, 1133
- DASMANN, R. F. Wildlife biology, *book review* of, 496
- Datta, L., *et al.*: Study of creative scientists: comments on methodology, 66
- Davis, E. J.: *book review* of Advances in heat transfer, vol. 1, 493
- DE CALLATAY, V., Atlas of the moon: astronomy-astronautics, *book review* of, 1027
- De Carli, P. S., and D. J. Milton: Stishovite: synthesis by shock wave, 144
- Deep and the past, The, D. B. ERICSON and G. WOLLIN, *book review* of by E. Olausson, 854
- Deevey, E. S.: *book review* of Approaches to paleoecology, 592
- de Heer, J.: *book review* of Free-electron theory of conjugated molecules: a source book, 1434
- del Castillo, J. *See* Alonso-deFlorida, F.
- Dental caries: a new look (*meeting report*), J. F. Frederick, 419
- Dermooptical perception: a cautionary report (*letter*), J. Zubin, 985
- Desalination and agriculture (*letter*), A. E. Peterson, 1087
- Desalination research in California (*letter*), S. Loeb, 1241
- DE VAUCOULEURS, A. *See* DE VAUCOULEURS, G.
- DE VAUCOULEURS, G., and DE VAUCOULEURS, A., Reference catalogue of bright galaxies, *book review* of, 1568
- De Vries, J.: *book review* of The systematic identification of organic compounds, 139
- Dewar, M. J. S.: *book review* of Mécanisme réactionnels en chimie organique, 287
- α -D-glucose: precise determination of crystal and molecular structure by neutron-diffraction analysis, G. M. Brown and H. A. Levy, 1038
- Dickmann, Z. *See* Noyes, R. W., *et al.*
- Dictionary of herpetology, J. A. PETERS, *book review* by E. P. Volpe, 43
- Dicyandiamide: possible role in peptide synthesis during chemical evolution, G. Steinman *et al.*, 1574
- Diehl, H.: *book review* of Organic complexing reagents: structure, behavior, and applications to inorganic analysis, 724
- Differential equations of mathematical physics, N. S. KOSHYAKOV *et al.*, *book review* by A. Schild, 596
- DiGeorge, A. M. *See* Pinsky, L.
- Dimorphic development of transplanted juvenile gonads of mosquitoes, J. F. Anderson and W. R. Horsfall, 624
- DINKINES, F., Elementary concepts of modern mathematics, *book review* of, 1565
- Direct observations of dislocations, S. AMELINCKX, *book review* by J. S. Koehler, 1134
- Disappearance of a genetic marker from a cytoplasmic hybrid plasmodium of the true slime mold, N. S. Kerr, 1586
- Disciplines and techniques of systems control, J. PESCHON (Ed.), *book review* by M. Goulard, 1564
- Discrimination and conditioning during sleep as indicated by the electroencephalogram, H. C. Beh and P. E. H. Barratt, 1470
- Dislocation networks in folded-chain polyethylene crystals, V. F. Holland and P. H. Lindenmeyer, 1296
- Dislocations in ice, C. E. Hayes and W. W. Webb, 44
- Disposable hydrogen generator, J. H. Brewer and D. L. Allgeier, 1033
- Dobyns, H. F. *See* Holmberg, A. R.
- DOBZHANSKY, T., Heredity and the nature of man, *book review* of, 392
- Dolomitization of the mid-Pacific atolls, R. A. Berner, 1297
- Dominance and diversity in land plant communities, R. H. Whittaker, 250
- Dondes, S. *See* Harteck, P., *et al.*
- Donn, W. L., *et al.*: Pollen from Alaska and the origin of ice ages, 632
- Doob, J. L.: *book review* of Analysis, vol. 1, 1135
- Doty, P. *See* Thach, R. E.
- Douglas, A. G., and B. J. Mair: Sulfur: role in genesis of petroleum, 499
- Douglas, E. *See* Pickwell, G. V., *et al.*
- Dowling, J. E.: Foveal receptors of the monkey retina: fine structure, 57
- DROBOT, S., Real numbers, *book review* of, 853
- Drougas, J. *See* Hicks, E. M., Jr., *et al.*

- Drug antagonism between lincomycin and erythromycin, L. J. Griffith *et al.*, 746
 du Buy, H. G., *et al.*: Isolation and characterization of DNA from kinetoplasts of *Leishmania enriettii*, 754
 DUCHESNE, J. (Ed.), The structure and properties of biomolecules and biological systems, *book review of*, 1437
 Dunlop, R. H.: Lactic acids: chemistry and metabolism (*meeting report*), 315
 Dunning, D. C., and K. D. Roeder: Moth sounds and the insect-catching behavior of bats, 173
 Duplication of evoked potential waveform by curve of probability of firing of a single cell, S. S. Fox and H. H. O'Brien, 888
 Dure, L., and L. Waters: Long-lived messenger RNA: evidence from cotton seed germination, 410
 Durham, J. W.: *book review of* Colloque sur le paléogène, 1435
 Dye, D. L., and M. Wilkinson: Radiation hazards in space, 19
 Dynamic clinical studies with radioisotopes, R. M. KNISELY *et al.* (Eds.), *book review by* F. D. Moore, 39
 Dynamics of epidemics of plant disease, J. E. Van der Plank, 120
 Dyson, J. L.: *book review of* The earth beneath us, 852
 Dziewiatkowski, D. D.: *book review of* An introduction to physical biochemistry, 139

E

- Earle, W.: *book review of* Ethics and science, 140
 Early American scientific instruments and their makers, S. A. BEDINI, *book review by* B. Hindle, 41
 Earth beneath us, The, K. MATHER, *book review by* J. L. Dyson, 852
 EAVES, G., Principles of radiation protection, *book review of*, 388
 Ebbighausen, E. G.: Supply of telescopes (*letter*), 1242
 Ebert, M. J. *See* Pollard, E. C., *et al.*
Echinococcus multilocularis in a beef cow from the Middle West, T. B. Magath, 632
 Eckert, R.: Bioelectric control of bioluminescence in the dinoflagellate *Noctiluca*, 1140
 Ecology of early food production in Mesopotamia, The, K. V. Flannery, 1247
 Ecology of rocky shores, The, J. R. LEWIS, *book review by* D. J. Crisp, 601
 Economic benefits from oceanographic research (*editorial*), P. H. Abelson, 461
Editorials: Air pollution, 1527; An adequate rate of growth, 1399; Economic benefits from oceanographic research, 461; The federal science budget, 561; Fields of scholarship, 1091; Geographic distribution of R&D funds, 361; Justifying basic research, 11; The Martian environment, 683; Natural beauty and conservation, 1245; A Pacific tropical botanical garden, 241; School laboratory supplies, 827; Science, technology, and the gold drain, 989; Water for North America, 113
 Edmondson, F. K.: *book reviews of* Atlas of the moon: astronomy-astronautics, 1027; Islands in space: the challenge of the planetoids, 1132
 Education and the atom: an evaluation of government's role in science education and information, especially as applied to nuclear energy, G. SEABORG and D. M. WILKES, *book review by* J. C. Cockcroft, 721
 Education in chemistry: United States and Japan (*meeting report*), B. Tam-mushi, 1163
 EIDUSON, B. T. *See* EIDUSON, S., *et al.*
 EIDUSON, S., *et al.*, Biochemistry and behavior, *book review of*, 1432
 Eightfold way, The, M. GELL-MANN and Y. NE'EMANN, *book review by* C. L. Critchfield, 1026
 Eisenberg, L., *et al.*: Radio frequency stimulation: a research and clinical tool, 578; *erratum*, 1122
 Eisenman, R. *See* Datta, L., *et al.*
 EISENSTEIN, A. B. (Ed.), The biochemical aspects of hormone action, *book review of*, 601
 Electrical connections between visual cells in the ommatidium of *Limulus*, T. G. Smith *et al.*, 1446
 Electromagnetic fields and interactions, vols. 1 and 2, R. BECKER, *book review by* E. L. Hill, 1138
 Electron microprobe analysis of oxygen in an iron meteorite, J. F. Lovering and C. A. Anderson, 734
 Electron microscopic anatomy, S. M. KURTZ (Ed.), *book review by* S. P. Sorokin, 288
 Electron yield in the γ -radiolysis of water vapor, J. H. Baxendale and G. P. Gilbert, 1571
 Eleftheriou, B. E. *See* Bronson, F. H.
 Elementary concepts of modern mathematics, F. DINKINES, *book review by* A. Wendt, 1565
 Elementary particle physics, G. KÄLLÉN, *book review by* L. Marshall, 1133
 Elements of ordinary differential equations, W. KAPLAN, *book review by* J. Agnew, 390
 Elements of real analysis, The, R. G. BARTLE, *book review by* G. B. Price, 497
 Elliott, K. A. C. *See* Jasper, H. H., *et al.*
 Elving, P. J.: *book review of* Methods in microanalysis, vol. 1, 1027
 Emery, K. O. *See* Merrill, A. S., *et al.*
 Emiliani, C.: Precipitous continental slopes and considerations on the transitional crust, 145
 Empiricism in engineering and science (*letter*), H. J. Gray, 557
 Encyclopedia of polymer science and technology, vol. 1, H. F. MARK *et al.* (Eds.), *book review by* A. T. McPherson, 386
 Energetics of propellant chemistry, B. SIEGEL and L. SCHIELER, *book review by* R. W. Van Dolah, 1435
 Engel, L. L.: *book review of* The biosynthesis of steroids, terpenes, and acetogenins, 142
 English ivy (*letter*), J. J. Zuckerman, 459
 Enright, J. T.: Entrainment of a tidal rhythm, 864
 Entrainment of a tidal rhythm, J. T. Enright, 864
 Enzyme from soil bacterium hydrolyzes phenylcarbamate herbicides, P. C. Kearney and D. D. Kaufman, 740
 ERICSON, D. B., and G. WOLLIN, The deep and the past, *book review of*, 854
Errata: for R. F. Chen and R. L. Bowman (12 Feb., p. 729), 1020; for L. Eisenberg *et al.* (5 Feb., p. 578), 1122; for News and Comment (8 Jan., p. 132), 491; for B. Shlien *et al.* (15 Jan., p. 290), 598; for R. E. Snow and W. F. Seibert, Race, science, and social policy [146, 1527, (1964)], 443
 Erythropoiesis in the chick embryo: the role of endoderm, F. H. Wilt, 1588
 Estabrook, R. W. *See* Cooper, D. Y., *et al.*
 Estlin, A. J.: *book review of* The propagation of electromagnetic waves in plasma, 1563
 Ethics and science, H. MARGENAU, *book review by* W. E. Earle, 140
 Ethology and experimental psychology (*meeting report*), W. N. Schoenfeld and S. H. Baron, 634
 Evans, C. R. *See* Robertson, A. D. J.
 Everett, G. A. *See* Holley, R. W., *et al.*
 Eves, H.: *book review of* The treasury of mathematics, 1437
 Evolution of biology, The, M. J. SIRKS and C. ZIRKLE, *book review by* C. S. Thornton, 42
 Evolving genes and proteins (*meeting report*), V. Bryson and H. J. Vogel, 68
 Ewing, M. *See* Donn, W. L., *et al.*
 ——— and E. M. Thorndike: Suspended matter in deep ocean water, 1291
 Exams: the college boards in chemistry (*letter*), G. C. Pimental, 8
 Exchange and power in social life, P. M. BLAU, *book review by* A. Kuhn, 137
 Exovagation of newt endoderm: cell affinities altered by the mesodermal inducing factor, U. Kocher-Becker *et al.*, 167
 Experimental methods in gas reactions, H. MELVILLE and B. G. GOWENLOCK, *book review by* W. A. Noyes Jr., 723
 Experimental phenylketonuria in infant monkeys, H. A. Waisman and H. F. Harlow, 685
 Explosion seismology, E. W. Carpenter, 363
 Extracellular matrices (*meeting report*), K. Meyer *et al.*, 760
 Extraterrestrial "geology": finding the right words (*letter*), A. M. Jacobs, 109
 Eyesight of astronauts (*letter*), F. W. Kantor, 1396
 Eylar, E. H., and G. T. Mاتيoli: Glycoprotein biosynthesis in human reticulocytes: a lesion in thalassemia, 869

F

- Fahrenbach, W. H.: Sarcoplasmic reticulum: ultrastructure of the triadic junction, 1308
 Falconer, G., *et al.*: Late-Wisconsin end moraines in northern Canada, 608
 Falk, H. L. *See* Abell, C. W., *et al.*
 Fallout from the nuclear explosion of 16 October 1964, P. K. Kuroda *et al.*, 1284
 Farbman, A. *See* Smith, A., *et al.*
 Farrell, G.: *book review of* Neuroendocrinology, 1136
 Fashion and competition in science (*letters*), M. Z. von Krzywoblocki and E. L. Goldwasser, 237
 Faucher, J. A., and J. V. Koleske: Sedimentation velocity experiments: position and motion of Schlieren peaks, 1152
 Featherstone, R. M.: *book review of* Introduction to molecular pharmacology, 1436
 Feder, H. H., and R. E. Whalen: Feminine behavior in neonatally castrated and estrogen-treated male mice, 306
 Federal science budget, The (*editorial*), D. Wolfe, 561
 Feeding stimulants for the female house fly, *Musca domestica* Linnaeus, W. E. Robbins *et al.*, 628
 Feminine behavior in neonatally castrated and estrogen-treated male mice, H. H. Feder and R. E. Whalen, 306
 Fields of scholarship (*editorial*), D. Wolfe, 1091
 Filo, R. S., *et al.*: Glycerinated skeletal and smooth muscle: calcium and magnesium dependence, 1581
 Fimognari, G. M., and V. W. Rodwell: Cholesterol biosynthesis: mevalonate synthesis inhibited by bile salts, 1038
 Fingerhut, A. G. *See* Norman, A., *et al.*

G

- Fischer, R. B.: Academic organization of science (*letter*), 9
- Fischer, W. H. See Coroniti, S. C.
- Fischetti, D. A. See Polley, E. H., *et al.*
- FISHER, G. W. See CLOOS, E., *et al.*
- FITZPATRICK, F. L.: Our plant resources, *book review of*, 391
- Flannery, K. V.: The ecology of early food production in Mesopotamia, 1247
- FLETCHER, T. J. (Ed.): Some lessons in mathematics, *book review of*, 138
- Flora Europaea, vol. 1, T. G. TUTIN *et al.* (Eds.), *book review by* I. L. Wiggins, 1024
- Flower, R. H.: *book review of* Time in stratigraphy, 1026
- Fluorescence polarization: measurement with ultraviolet-polarizing filters in a spectrophotofluorometer, R. F. Chen and R. L. Bowman, 729; *erratum*, 1020
- For complexity (*letter*), W. F. Battig, 558
- Ford, E. See Huggins, C. B., *et al.*
- FORD-SMITH, M. H.: The chemistry of complex cyanides, *book review of*, 1025
- FORESTIER, F. H.: Les Péridotites serpentineuses en France, *book review of*, 1137
- Foshee, D. P. See Meier, G. W., *et al.*
- Foveal receptors of the monkey retina: fine structure, J. E. Dowling, 57
- Fox, S. S., and H. H. O'Brien: Duplication of evoked potential waveform by curve of probability of firing of a single cell, 888
- Fox, W. T. R.: *book review of* How nations negotiate, 1131
- Frank, M. M., *et al.*: Complement and hemolytic antibody: changes in their activity induced by mercaptoethanol, 742
- Frank, P. W.: *book review of* Wildlife biology, 496
- Franzini-Armstrong, C. See Costantin, L. L., *et al.*
- Frederick, J. F.: Dental caries: a new look (*meeting report*), 419
- Free-electron theory of conjugated molecules: a source book, J. R. PLATT and others, *book review by* J. de Heer, 1434
- Freiberger, H.: Sensory research discussion: "sonar" and electronic reading for the blind, 1163
- French, B. M., and P. E. Rosenberg: Siderite (FeCO₃): thermal decomposition in equilibrium with graphite, 1283
- Friedman, H. See Bowyer, S., *et al.*
- Friedman, M. P. See Carterette, E. C., *et al.*
- Friend, A. G. See Shleien, B., *et al.*
- FRINGS, H., and M. FRINGS: Animal communication, *book review of*, 492
- FRINGS, M. See FRINGS, H.
- Fruento, A. S.: Sodium pump: its electrical effects in skeletal muscle, 1442
- Fryxell, R.: Mazama and Glacier Peak volcanic ash layers: relative ages, 1288
- FUCHS, B. A., and B. V. SHABAT, Functions of a complex variable, vol. 1, *book review of*, 39
- Fujii, T. See Gorbman, A.
- Functions of a complex variable, vol. 1, B. A. FUCHS and B. V. SHABAT, *book review by* G. Springer, 39
- Fundamentals of microwave electronics, M. CHODOROW and C. SUSSKIND, *book review by* A. H. Barrett, 1436
- Fundamentals of modern mathematics, J. M. CALLOWAY, *book review by* L. A. Ringenberg, 43
- Funkenstein, H. H. See Pickwell, G. V., *et al.*
- Fuortes, M. G. F. See Smith, T. G., *et al.*
- Furst, P. T.: Radiocarbon dates from a tomb in Mexico, 612
- FUSON, R. C. See SHRINER, R. L., *et al.*
- Galileo: falsified record (*letters*), E. Adelson and J. J. McGrath, 459
- Galileo's discoveries in dynamics, N. R. Hanson, 471
- Gallow, R. K. See Calam, D. H.
- Galun, R., and S. N. Kindler: Glutathione as an inducer of feeding in ticks, 166
- Ganapathy, R. See Kuroda, P. K., *et al.*
- Gas analysis by gas chromatography, P. G. JEFFERY and P. J. KIPPING, *book review by* H. H. Strain, 288
- Gast, P. W.: Terrestrial ratio of potassium to rubidium and the composition of earth's mantle, 858
- GAYLORD, N. G. See MARK, H. F., *et al.*
- Gazzarrini, F. See Colombo, U., *et al.*
- Gelb, L. D., and A. M. Lerner: Reovirus hemagglutination: inhibition by N-acetyl-D-glucosamine, 404
- GELLER, E. See EIDUSON, S., *et al.*
- GELL-MANN, M., and NE'EMAN, Y.: The eightfold way, *book review of*, 1026
- Geltman, S.: *book review of* Atomic collision processes, 594
- Genera of flowering plants (Angiospermae), The, vol. 1, J. HUTCHINSON, *book review by* A. C. Smith, 1561
- Generalized functions and direct operational methods, vol. 1, T. P. G. LIVERMAN, *book review by* E. Pinney, 40
- Genetic control in guinea pigs of immune response to conjugates of haptens and poly-L-lysine, B. B. Levine and B. Benacerraf, 517
- Genetic influence on experimental allergic thyroiditis in guinea pigs, P. R. B. McMaster *et al.*, 157
- Genetics and man, C. D. DARLINGTON, *book review by* W. K. Baker, 725
- Genetics for the clinician, C. A. CLARKE, *book review by* H. E. Sutton, 595
- Geographic distribution of R&D funds (*editorial*), D. Wolfe, 361
- Geological interpretation of aeromagnetic profiles, N. A. Ostenso and E. R. King *et al.*, 1052
- Geology of Howard and Montgomery counties, The, E. CLOOS *et al.*, *book review by* R. B. Neuman, 497
- Gibberellin production in pea seeds developing in excised pods: effect of growth retardant AMO-1618, B. Baldev *et al.*, 155
- Gibbs, C. L. and N. V. Ricchiuti: Activation heat in muscles: method for determination, 162
- Giese, A. C. See Lawrence, A. L., *et al.*
- Gilbert, G. P. See Baxendale, J. H.
- Gillin, J. P.: *book review of* Cooperation in change; Introducing social change, 1027
- GINZBURG, V. L.: The propagation of electromagnetic waves in plasma, *book review of*, 1563
- GIRIFALCO, L. A.: Atomic migration in crystals, *book review of*, 1132
- Glavin, T. P. See Shleien, B., *et al.*
- Glenn, W. W. L. See Eisenberg, L., *et al.*
- GLINER, E. B. See KOSHYAKOV, N. S., *et al.*
- Glutathione as an inducer of feeding in ticks, R. Galun and S. H. Kindler, 166
- Glycerinated skeletal and smooth muscle: calcium and magnesium dependence, R. S. Filo *et al.*, 1581
- Glycoprotein biosynthesis in human reticulocytes: a lesion in thalassemia, E. H. Eylar and G. T. Mantioli, 869
- Goben, W. See Brockman, H. E.
- Gold, A. M.: *book review of* Isotopes in biology; Tracer experiment: tracing biochemical reactions with radioisotopes, 1277
- Goldberg, A. See Pickwell, G. V., *et al.*
- Goldberg, A. F. See Hirschhorn, R., *et al.*
- Goldberg, G. See Susano, C. D., *et al.*
- Goldhaber, P.: Heparin enhancement of factors stimulating bone resorption in tissue culture, 407
- Goldstein, L. See Pickwell, G. V., *et al.*
- Goldwasser, E. L. See von Krzywoblocki, M. Z.
- GOODENOUGH, W. H.: Cooperation in change, *book review of*, 1027
- Goodman, M., *et al.*: Species and geographic differences in the transferrin polymorphism of macaques, 884
- Goodrich, R. B. See Vance, V. J., *et al.*
- Gorbman, A., and T. Fujii: Japanese zoologists abroad (*letter*), 1395
- Gordon, M. See Greengard, O., *et al.*
- Gordon research conferences: program for 1965, W. G. Parks, 1312
- Gottlieb, G.: Prenatal auditory sensitivity in chickens and ducks, 1596
- Gottschalk, C. W. See Gutman, Y., *et al.*
- Goulard, M.: *book review of* Disciplines and techniques of systems control, 1564
- Gouras, P.: Primate retina: duplex function of dark-adapted ganglion cells, 1593
- Government and manpower, E. D. CANHAM, *book review by* S. L. Wolbein, 851
- GOWENLOCK, B. G. See MELVILLE, H.
- Granick, S.: *book review of* Tetrapyrrole biosynthesis and its regulation, 1567
- Gray, H. J.: Empiricism in engineering and science (*letter*), 557
- Green, H. See Todaro, G. J.
- GREEN, H. L., and W. R. LANE: Particulate clouds: dusts, smoke, and mists, *book review of*, 855
- Greenberg, D. S. (*News and Comment*): arts and humanities, 273; atoms for peace, 843; Breakthrough Institute, 29; college presidents, 380; Congress and science, 582; Elliott Committee, 131 (*erratum*, 491); Lysenko, 716; Mohole, 487; moon-landing program, 381; NSF annual report, 1014; nuclear accelerator, 1423; scientists and space, 1269; Frederic Seitz, 715; Smithsonian Institution, 1266; Wooldridge Committee, 1559
- Greengard, O., *et al.*: Iron accumulation in cockerel plasma after estrogen: relation to induced phosphoprotein synthesis, 1571
- Gregory, E. See McWhan, D. B., *et al.*
- GRIEM, H. R.: Plasma spectroscopy, *book review of*, 284
- Griffin, B. I. See Palmer, H. E., *et al.*
- Griffith, L. J., *et al.*: Drug antagonism between lincomycin and erythromycin, 746
- Griggs, D. T., and J. D. Blacic: Quartz: anomalous weakness of synthetic crystals, 292
- Gross, J. A.: Pressure-induced color mutation of *Euglena gracilis*, 741
- Gross, L.: The Waldemar experience (*letter*), 9
- Gross, P. R. See Mangan, J., *et al.*
- Grosse, A. V.: Viscosities of liquid sodium and potassium, from their melting points to their critical points, 1438
- Grosse, E. See Marinkelle, C. J.
- Growth and tissue formation from single, isolated tobacco cells in microculture, V. Vasil and A. C. Hildebrandt, 1454
- Grumbach, M. M. See Kaplan, S. L.
- GRÜNBAUM, A.: Philosophical problems of space and time, *book review of*, 724
- Gubareff, N. See Abell, C. W., *et al.*
- Guilloud, N. B. See Bernstein, I. S.
- Guinn, V. P., and R. E. Wainerdi: Nuclear activation analysis (*meeting report*), 415
- GUTHRIE, R. D., and H. HONEYMAN: An introduction to the chemistry of carbohydrates, *book review of*, 284
- Gutman, Y., *et al.*: Micropuncture study of inulin absorption in the rat kidney, 753

H

- Hadlow, W. J. *See* Brody, J. A., *et al.*
 Hageman, J. H. *See* Eisenberg, L., *et al.*
 Hagen-Smit, A. J.: *book review* of Particulate clouds: dusts, smoke, and mists, 855
 Hahn, F. E.: Science self-generated (*letter*), 823
 Halfar, E.: *book review* of A textbook on analytical geometry, 1137
 HALL, R. P.: Protozoa: the simplest of all animals, *book review* of, 723
 Halperin, W., and D. F. Wetherell: Ontogeny of adventive embryos of wild carrot, 756
 Halvorson, H. *See* Marcus, L., *et al.*
 Hamilton, T. R.: Protoplasts and L-forms (*meeting report*), 635
 Handbook of industrial analysis, R. G. WHITE, *book review* by R. A. Nyquist, 1277
 Handbuch der binnenschifferei mitteleuropas, vol. 2A, H. H. WUNCH (Ed.), *book review* by N. J. Wilimovsky, 852
 Hanly, E. W.: *book review* of Molecular biology: genes and the chemical control of living cells, 141
 Hanson, N. R.: Galileo's discoveries in dynamics, 471
 Hanson, W. C. *See* Palmer, H. E., *et al.*
 HARKER, J. E.: The physiology of diurnal rhythms, *book review* of, 387
 Harlow, H. F. *See* Waisman, H. A.
 Harmon, J.: Bioastronautics and space (*meeting report*), 314
 HARNETT, J. P. *See* IRVINE, T. F., JR.
 Harper, H. A.: *book review* of Biochemical disorders in human disease, 853
 Hart, S. R. *See* Rama, S. N. I.
 Harteck, P., *et al.*: Ozone: decomposition by ionizing radiation, 393
 Haseltine, W. A. *See* Shirk, J. S., *et al.*
 Hathaway, J. C.: *book review* of Soil clay mineralogy, 1276
 Haughton, G.: Moloney virus-induced leukemias of mice: measurement in vitro of specific antigen, 506
 Hawkes, H. E.: *book review* of Biogeochemical methods of prospecting, 727
 Hawkins, G. S.: Callanish, a Scottish Stonehenge, 127; The physics and astronomy of meteors, comets, and meteorites, *book review* of, 1136
 HAWTHORNE, J. N. *See* ANSELL, G. B.
 Hayes, C. E., and W. W. Webb: Dislocations in ice, 44
 Heller, A., *et al.*: 5-Hydroxytryptophan decarboxylase in rat brain: effect of hypothalamic lesions, 887
 Heller, D. P. *See* Rock, I., *et al.*
 Hemoglobin polymerization in mice, A. Riggs, 621
 HENDLER, E. *See* BURNS, N. M., *et al.*
 Hendrickson, J. B. *See* Richards, J. H.
 Hennig, G. R.: Screw dislocations in graphite, 733
 Heparin enhancement of factors stimulating bone resorption in tissue culture, P. Goldhaber, 407
 Hepatic glycogen depletion in *Amphiuma* during induced anoxia, F. L. Rose *et al.*, 1467
 Herbstreit, J. W.: Radio meteorology (*meeting report*), 76
 Heredity and the nature of man, T. DOBZHANSKY, *book review* by G. G. Simpson, 392
 Hersey, D. F.: Information exchange (*letter*), 824
 Hershenson, M., *et al.*: Preference for shapes of intermediate variability in the newborn human, 630
 Hershkovitz, P., and P. D. MacLean, Primate research and systematics, 1156
 Hess, C. M. *See* Trembley, F. J., *et al.*
 Heterocyclic compounds with three- and four-membered rings, pts. 1 and 2, A. WEISSBERGER (Ed.), *book review* by C. D. Hurd, 388
 Hexanedione from hydrocarbon polymer oxidation, E. M. Bevilacqua and P. M. Norling, 289
 HEYWOOD, V. H. *See* TUTIN, T. G., *et al.*
 Hicks, E. M., Jr., *et al.*: Spandex elastic fibers, 373
 Hicks, J. F. G.: Company budgets for basic research (*letter*), 985
 High-pressure transitions of germanium and a new high-pressure form of germanium, C. H. Bates *et al.*, 860
 Hildebrandt, A. C. *See* Vasil, V.
 Hilgard, E. R.: *book review* of The act of creation, 37
 Hill, E. L.: *book review* of Electromagnetic fields and interactions, vols. 1 and 2, 1138
 Hill, R. L. *See* Buettner-Janusch, J.
 HILLE, E.: Analysis, vol. 1, *book review* of, 1135
 Hilton, P. J.: *book review* of Some lessons in mathematics, 138
 Hinchcliffe, R. R.: American research vessel (*letter*), 109
 Hindle, B.: *book review* of Early American scientific instruments and their makers, 41
 Hinkley, J. W.: Addendum (*letter*), 680
 Hirsch, W.: After Lysenko (*letter*), 358
 Hirschhorn, K. *See* Hirschhorn, R., *et al.*
 Hirschhorn, R., *et al.*: Acid phosphatase-rich granules in human lymphocytes induced by phytohemagglutinin, 55
Histoplasma capsulatum from the liver of a bat in Columbia, C. J. Marinkelle and E. Grosse, 1039
Histoplasma capsulatum: occurrence in soil from the Emilia-Romagna region in Italy, G. Sotgiu *et al.*, 624
 History of the theory of structure of the atomic nucleus, J. H. D. Jensen, 1419
 Hodge, H. C.: *book review* of Radiation, isotopes, and bone, 495
 HODGE, P. W. *See* BRANDT, J. C.
 Hoebel, E. A.: *book review* of Process and pattern in culture: essays in honor of Julian Steward, 850
 HOFTSTADTER, R., and L. I. SCHIFF (Eds.), Nucleon structure, *book review* of, 494
 HOGERTON, J. F. *See* ZINN, W. H., *et al.*
 Holden, P., *et al.*: Arbovirus hemagglutinin inhibitor in acetone-extracted sera from normal chickens, 169
 Holland, V. F., and P. H. Lindenmeyer: Dislocation networks in folded-chain polyethylene crystals, 1296
 HOLLAND, W. C., *et al.*: Introduction to molecular pharmacology, *book review* of, 1436
 Holley, R. W., *et al.*: Structure of a ribonucleic acid, 1462
 Holmberg, A. R., and H. F. Dobyns: Transformation of peasant societies (*meeting report*), 1062
 Holmes, H. *See* Sackett, G. P., *et al.*
 HONEYMAN, J. *See* GUTHRIE, R. D.
 Hoover, Herbert, Engineer, F. E. Terman, 125
 Hoover, S. R., *et al.*: Research and purpose (*letters*), 1523
 Hopkins, A. L. *See* Bratton, C. B., *et al.*
 Hopkins, D. M., *et al.*: Quaternary correlations across Bering Strait, 1107
 HOPSON, C. A. *See* CLOOS, E., *et al.*
 Horsfall, W. R. *See* Anderson, J. F.
 Hotchkin, J. *See* Brody, J. A., *et al.*
 Hot shadows of Jupiter, R. L. Wildey, 1035
 How nations negotiate, F. C. IKLÉ, *book review* by W. T. R. Fox, 1131
 Howard, A. D.: *book review* of Antarctic snow and ice studies, 142
 Howard, R. A.: *book review* of Common trees of Puerto Rico and the Virgin Islands, 38
 Howard, R. H., *et al.*: Solar astronomy neglected (*letter*), 1087
 Hubbard, W. N.: Calorimetry (*meeting report*), 312

- Hubel, D. H. *See* Pickwell, G. V., *et al.*
 Huggins, C. B., *et al.*: Carcinogenic aromatic hydrocarbons: special vulnerability of rats, 1153
 Hull, G. W., Jr. *See* McWhan, D. B., *et al.*
 Human embryo, The, E. BLECHSCHMIDT, *book review* by E. C. Sensenig, 857
 Hurd, C. D.: *book review* of Heterocyclic compounds with three- and four-membered rings, pts. 1 and 2, 388
 HUTCHINSON, J.: Genera of flowering plants (Angiospermae), vol. 1, *book review* of, 1561
 Hybrid resistance controlled by H-2 region: correction of data, G. Cudkowicz and J. H. Stimpfling, 1056
 Hyde, J. F.: Chemical background of silicosis, 829
 5-Hydroxytryptophan decarboxylase in rat brain: effect of hypothalamic lesions, A. Heller *et al.*, 887

I

- Identifying great teachers (*letters*), D. A. Mathewes, Jr., *et al.*, 556
 Ikeda, H.: Interspecific transfer of the "sex-ratio" agent of *Drosophila willistoni* in *Drosophila bifasciata* and *Drosophila melanogaster*, 1147
 IKLÉ, F. C.: How nations negotiate, *book review* of, 1131
 IMBRIE, J., and N. NEWELL (Eds.), Approaches to paleoecology, *book review* of, 592
 Immune reactivity in mice thymectomized soon after birth: normal response after pregnancy, D. Osoba, 298
 Immunoassay for human chorionic "growth hormone-prolactin" in serum and urine, S. L. Kaplan and M. M. Grumbach, 751
 Immunoglobulin structure: amino- and carboxyl-terminal peptides of type I Bence Jones proteins, K. Titani and F. W. Putnam, 1304
 Imprinting: a reassessment, P. H. Klopfer, 302
 Indium telluride (II'): transitory intermediate phase in the transformation InTe(II) to InTe(I), C. B. Sclar *et al.*, 1569
 Information exchange (*letter*), D. F. Hersey, 824
 Ingle, D. J. *See* Powell, A. C.
 Inheritance of linoleic and oleic acids in maize, C. G. Poneleit and D. E. Alexander, 1585
 Inhibition of flowering by light in the short-day plant *Salvia occidentalis*, S. C. Bhargava, 60
 Integral equations, S. G. MIKHLIN, *book review* by J. T. Darwin, Jr., 1133
 Intercisternal elements of the Golgi apparatus, F. R. Turner and W. G. Whaley, 1303
 Interference between "sex-ratio" agents of *Drosophila willistoni* and *Drosophila nebulosa*, B. Sakaguchi *et al.*, 160
 Intermolecular forces in association of purines with polybenzoid hydrocarbons, B. Pullman *et al.*, 1305
 International nutrition programs, C. G. King, 25
 Interspecific transfer of the "sex-ratio" agent of *Drosophila willistoni* in *Drosophila bifasciata* and *Drosophila melanogaster*, H. Ikeda, 1147
 Introducing social change, C. M. ARENSBERG and A. H. NIEHOFF, *book review* by J. P. Gillin, 1027
 Introduction to molecular pharmacology, W. C. HOLLAND *et al.*, *book review* by R. M. Featherstone, 1436
 Introduction to physical biochemistry, An. H. B. BULL, *book review* by D. D. Dziewiatkowski, 139
 Introduction to probability and statistics,

- H. L. ALDER and E. B. ROESSLER, *book review* by J. A. Speckman, 1138
- Introduction to radioactivity, An, E. N. JENKINS, *book review* by M. Philips, 42
- Introduction to the atomic nucleus, J. G. CUNNINGHAM, *book review* by J. A. Jungerman, 1567
- Introduction to the chemistry of carbohydrates, An, R. D. GUTHRIE and J. HONEYMAN, *book review* by R. L. Whistler, 284
- Investigation into electrical discharges in gases, B. N. KLYARFEL'D (Ed.), *book review* by J. D. Cobine, 1028
- Involvement of thymus in immune response of rabbits to somatic polysaccharides of gram-negative bacteria, M. Landy *et al.*, 1591
- Ionizing radiation: effect of irradiated medium on synthetic processes, E. C. Pollard *et al.*, 1045
- Iron accumulation in cockerel plasma after estrogen: relation to induced phosphoprotein synthesis, O. Greengard *et al.*, 1571
- IRVINE, T. F., JR., and J. P. HARNETT (Eds.), *Advances in heat transfer*, vol. 1, *book review* of, 493
- IRVING, E., Paleomagnetism and its application to geological and geophysical problems, *book review* of, 494
- Irving, W. N. *See* Rein, R. A., *et al.*
- Islands in space: the challenge of the planetoids, D. M. COLE and D. W. COX, *book review* by F. K. Edmondson, 1132
- Isolation and characterization of DNA from kinetoplasts of *Leishmania enriettii*, H. G. du Buy *et al.*, 754
- Isotopes in biology, G. WOLF, *book review* by A. M. Gold, 1277
- Isselbacher, K. J. *See* Sabesin, S. M.
- Itch and vibration, R. Melzack and B. Schechter, 1047
- Itoh, S. *See* Sargent, F., II
- Ives, J. D. *See* Falconer, G., *et al.*

J

- Jackson, D. *See* Press, F.
- Jacobs, A. M.: Extraterrestrial "geology": finding the right words (*letter*), 109
- Jacobson, M., and M. Beroza: American cockroach sex attractant, 748
- Jane, J. A., *et al.*: Pyramidal tract: a comparison of two prosimian primates, 153
- Japanese zoologists abroad (*letter*), A. Gorbman and T. Fujii, 1395
- Jaqua, R. A. *See* Nicklas, R. B.
- Jarco, S.: Paleopathology (*meeting report*), 1160
- Jasper, H. H., *et al.*: Amino acids released from the cerebral cortex in relation to its state of activation, 1448
- JEFFERY, P. G., and P. J. KIPPING, Gas analysis by gas chromatography, *book review* of, 288
- JENKINS, E. N., An introduction to radioactivity, *book review* of, 42
- Jensen, E. V. *See* Huggins, C. B., *et al.*
- Jensen, J. H. D.: The history of the theory of structure of the atomic nucleus, 1419
- Jensen, T. E. *See* Bowen, C. C.
- JEVONS, F. R., The biochemical approach to life, *book review* of, 1275
- JOHNSON, N. L., and F. C. LEONE, Statistics and experimental design in engineering and the physical sciences, vols. 1 and 2, *book review* of, 1025
- Johnson, R. T., *See* Brody, J. A., *et al.*
- Johnstone, M. S. *See* Chow, T. J.
- Jolly, W. L. *See* Kirschke, E. J.
- Jones, R. L.: *book review* of Spectroscopy and photochemistry of uranyl compounds, 392
- Jungerman, J. A.: *book review* of Introduction to the atomic nucleus, 1567
- Justifying basic research (*editorial*), P. E. Klopsteg, 11

K

- KÄLLÉN, G., Elementary particle physics, *book review* of, 1133
- KAMEN, M. D., A tracer experiment: tracing biochemical reactions with radioisotopes, *book review* of, 1277
- Kantor, F. W.: Eyesight of astronauts (*letter*), 1396
- KAPLAN, A., The conduct of inquiry: methodology for behavioral science, *book review* of, 283
- Kaplan, J. M. *See* Hirschhorn, R., *et al.*
- Kaplan, S. L., and M. M. Grumbach: Immunoassay for human chorionic "growth hormone-prolactin" in serum and urine, 751
- KAPLAN, W., Elements of ordinary differential equations, *book review* of, 390
- KATZ, J. J. *See* CREWE, A. V.
- Kaufman, D. D. *See* Kearney, P. C.
- Kearney, P. C., and D. D. Kaufman: Enzyme from soil bacterium hydrolyzes phenylcarbamate herbicides, 740
- Kellogg, W. N. *See* Schusterman, R. J., *et al.*
- Kennedy, G. C.: *book review* of The physicochemical principles of igneous petrology, 1566
- Kerr, N. S.: Disappearance of a genetic marker from a cytoplasmic hybrid plasmodium of the true slime mold, 1586
- Kessen, W. *See* Hershenson, M., *et al.*
- Khan, R. T. *See* Jasper, H. H., *et al.*
- KIMBALL, S. T. *See* ARENSBERG, C. M.
- Kindler, S. N. *See* Galun, R.
- King, C. G.: International nutrition programs, 25
- KING, E. J. *See* THOMPSON, R. H. S.
- King, E. R. *See* Ostenso, N. A., *et al.*
- Kinin-induced parthenocarp in the fig, *Ficus carica* L., J. C. Crane and J. van Overbeek, 1468
- KIPPING, P. J. *See* JEFFERY, P. G.
- Kirschke, E. J., and W. L. Jolly: Reversibility of reaction of potassium with liquid ammonia, 45
- Kitahara, T. *See* Rapp, F., *et al.*
- Klee, M. R., *et al.*: Cross-correlation analysis of electroencephalographic potentials and slow membrane transients, 519
- KLEIN, R. L. *See* HOLLAND, W. C., *et al.*
- Klement, A. W., Jr. *See* Bierly, E. W.
- Klock, B. L.: Astronomy overlooked (*letter*), 7
- Klopfer, P. H.: Imprinting: a reassessment, 302
- Klopsteg, P. E. (*editorial*): Justifying basic research, 11
- KLYARFEL'D, B. N. (Ed.), Investigation into electrical discharges in gases, *book review* of, 1028
- KNISELY, R. M., *et al.* (Eds.), Dynamic clinical studies with radioisotopes, *book review* of, 39
- Ko, W. H., and A. B. Kuper: *book review* of Physics of semiconductors, 851
- Kobayashi, S. *See* Sakaguchi, B., *et al.*
- Kocher-Becker, U., *et al.*: Exovagation of newt endoderm: cell affinities altered by the mesodermal inducing factor, 167
- Kochler, J. S.: *book reviews* of The direct observations of dislocations, 1134; Theory of crystal dislocations, 1023
- KOESTLER, A., The act of creation, *book review* of, 37
- Kolacz, K. *See* Pollard, E. C., *et al.*
- Kolb, C. R.: Military problems in cold regions (*meeting report*), 71
- Koleska, J. V. *See* Faucher, J. A.
- KOLMOGOROV, A. N. *See* ALEKSANDROV, A. D., *et al.*
- Koprowski, H. *See* Brody, J. A., *et al.*
- KOSHYAKOV, N. S., *et al.*, Differential equations of mathematical physics, *book review* of, 596
- KOTZ, S., Russian-English dictionary of statistical terms and expressions and

Russian reader in statistics, *book review* of, 143

- Kozloff, E. N.: *book review* of Protozoa: the simplest of all animals, 723
- KRAUCH, H., and W. KUNZ, Organic name reactions, *book review* of, 726
- KRAUS, B. S., The basis of human evolution, *book review* of, 389
- Krech, D., and E. L. Bennett: *book review* of Biochemistry and behavior, 1432
- Kroening, J. L.: Stratosphere and troposphere: transport of materials between them, 862
- Ku, H. H.: *book review* of Statistics and experimental design in engineering and the physical sciences, vols. 1 and 2, 1025
- KUCK, J. A. (Ed.), Methods in microanalysis, vol. 1, *book review* of, 1027
- Kuhn, A.: *book review* of Exchange and power in social life, 137
- Kulkarni, A. *See* Goodman, M., *et al.*
- KUNZ, W. *See* KRAUCH, H.
- KUNZE, G. W. *See* RICH, C. L.
- Kuper, A. B. *See* Ko, W. H.
- Kuper, J. B. H.: *book review* of principles of radiation protection, 388
- Kurland, L. T. *See* Brody, J. A., *et al.*
- Kuroda, P. K., *et al.*: Fallout from the nuclear explosion of 16 October 1964, 1284
- KURTZ, S. M. (Ed.), Electron microscopic anatomy, *book review* of, 288
- Kushner, L. M.: *book review* of The science and technology of tungsten, tantalum, molybdenum, niobium, and their alloys, 138

L

- Lache, M. *See* Zyskind, J. W., *et al.*
- Lactic acids: chemistry and metabolism (*meeting report*), R. H. Dunlop, 315
- La Fave, L.: No quarter for humanities (*letter*), 1242
- Laing, W. R. *See* Susano, C. D., *et al.*
- Laitinen, H. A.: *book review* of Principles and methods of chemical analysis, 1433
- LaMotte, L. C. *See* Holden, P., *et al.*
- Landy, M., *et al.*: Involvement of thymus in immune response of rabbits to somatic polysaccharides of gram-negative bacteria, 1591
- LANE, W. R. *See* GREEN, H. L.
- Lang, A. *See* Baldev, B., *et al.*
- Langer, E. (*News and Comment*): Arms Control and Disarmament Agency, 584; Congress and drugs, 846; government and science, 134; Public Health Service, 276; quackery and the elderly, 1119; Secretary of Commerce, 32; Title VI, 488; water pollution, 1018
- Lanzavecchia, G. *See* Colombo, U., *et al.*
- Larsen, J. A. *See* Bryson, R. A., *et al.*
- LASCELLES, J., Tetrapyrrole biosynthesis and its regulation, *book review* of, 1567
- Lassiter, W. E. *See* Gutman, Y., *et al.*
- Late-Wisconsin end moraines in northern Canada, G. Falconer *et al.*, 608
- Lateralization of sounds at the unstimulated ear opposite a noise-adapted ear, E. C. Carterette *et al.*, 63
- LAVRENT'EV, M. A. *See* ALEKSANDROV, A. D., *et al.*
- Law, J. H.: *book review* of Phospholipids: chemistry, metabolism, and function, 286
- Law, L. W.: Thymus: role in resistance to polyoma virus oncogenesis, 164
- Lawrence, A. L., *et al.*: Cyclic variations in the digestive gland and glandular oviduct of chitons (*Mollusca*), 508
- LAWRENCE, J., *et al.*, Radioisotopes and radiation: recent advances in medicine, agriculture, and industry, *book review* of, 721
- Lawrence, J. M. *See* Lawrence, A. L., *et al.*

- Lead isotopes in gasoline and aerosols of Los Angeles basin, California, T. J. Chow and M. S. Johnstone, 502
- LEE, M. O. (Ed.), *Biology of the Antarctic seas*, vol. 1, *book review of*, 284
- Lee, P. E., and A. Wilkes: Polymorphic spermatozoa in the hymenopterous wasp *Dahlbominus*, 1445
- Lecte, E.: Biosynthesis of alkaloids, 1000
- Leighton, R. See Howard, R., *et al.*
- Lemmon, R. M. See Schimpl, A., *et al.*
- Lemmon, R. M. See Steinman, G., *et al.*
- LENNEBERG, E. H. (Ed.), *New directions in the study of language*, *book review of*, 1023
- Lennette, E. H. See Riggs, J. L.
- Lens fiber differentiation and gamma crystallins: immunofluorescent study of Wolffian regeneration, C. Takata *et al.*, 1299
- Leon, M. A.: Complement: inactivation of second component by *p*-hydroxymercibenzoate, 1034
- LEONDES, C. T., and VANCE, R. W. (Eds.), *Lunar missions and exploration*, *book review of*, 1566
- LEONE, C. A. (Ed.), *Taxonomic biochemistry and serology*, *book review of*, 390
- LEONE, F. C. See JOHNSON, N. L.
- Lepper, M. H., and D. Perlman: Antimicrobial agents and chemotherapy (*meeting report*), 522
- Lerner, A. M. See Gelb, L. D.
- Lerner, E. M., II. See Landy, M., *et al.*
- Lerner, E. M., II. See McMaster, P. R. B., *et al.*
- Lesuk, A., *et al.*: Crystalline human urokinase: some properties, 880
- Levin, S. See Cooper, D. Y., *et al.*
- Levine, B. B., and B. Benacerraf: Genetic control in guinea pigs of immune response to conjugates of haptens and poly-L-lysine, 517
- LEVY, H., *Projective and related geometrics*, *book review of*, 1023
- Levy, H. A. See Brown, G. M.
- Lewin, R. A.: A matter of syntax (*letter*), 357
- LEWIS, J. R., *The ecology of rocky shores*, *book review of*, 601
- Li, K.: Ciguatera fish poison: a cholinesterase inhibitor, 1580
- Lilly, D. M., and R. H. Stillwell: Probiotics: growth-promoting factors produced by microorganisms, 747
- Lilly, J. C.: Vocal mimicry in *Tursiops*: ability to match numbers and durations of human vocal bursts, 300
- Lindenmeyer, P. H.: Crystallization and molecular folding, 1256. *See also* Holland, V. F.
- Lindner, W. See Carterette, E. C., *et al.*
- LINDUSKA, J. P. (Ed.), *Waterfowl tomorrow*, *book review of*, 498
- Lindzey, G. See Meier, G. W., *et al.*
- LINSKENS, H. F. (Ed.), *Pollen physiology and fertilization*, *book review of*, 602
- Lippincott, B. B. See Lippincott, J. A.
- Lippincott, J. A., and B. B. Lippincott: *Agrobacterium tumefaciens*: thermal inactivation of tumor-producing ability, 1578
- LITTLE, E. L., JR., and F. H. WADSWORTH, *Common trees of Puerto Rico and the Virgin Islands*, *book review of*, 38
- LIVERMAN, T. P. G., *Generalized functions and direct operational methods*, vol. 1, *book review of*, 40
- Lives of desert animals in Joshua Tree National Monument, The, A. H. MILLER and R. C. STEBBINS, *book review by* W. H. Behle, 1278
- Localization of calcium-accumulating structures in striated muscle fibers, L. L. Costantin *et al.*, 158
- Locke, E. G.: *book review of* Wood and cellulose science, 595
- Locke, M.: Permeability of insect cuticle to water and lipids, 295
- LOEB, B. S. See LAWRENCE, J., *et al.*
- Loeb, S.: Desalination research in California (*letter*), 1241
- Long-abandoned views (*letter*), G. G. Simpson, 1397
- Long-lived messenger RNA: evidence from cotton seed germination, L. Dure and L. Waters, 410
- Long-lived solid-state circuits (*meeting report*), T. L. Campbell, 1472
- Lovering, J. F., and C. A. Anderson: Electron microprobe analysis of oxygen in an iron meteorite, 734
- Lukacs, E.: *book review of* Russian-English dictionary of statistical terms and expressions and Russian reader in statistics, 143
- Lunar missions and exploration, C. T. LEONDES and R. W. VANCE (Eds.), *book review by* R. A. Nidey, 1566
- LUNEBERG, R. K., *Mathematical theory of optics*, *book review of*, 1276
- Lymphocyte lifetime in women, A. Norman *et al.*, 745
- Lyon, W. S. See Susano, C. D., *et al.*
- ## M
- Macchitelli, F. J. See Polley, E. H., *et al.*
- Macintyre, W. M.: Charge-transfer self-complex formed by 8-azaguanine, 507
- MacLean, P. D. See Herschkovitz, P.
- MacNeil, F. S. See Hopkins, D. M., *et al.*
- Macromolecular chemistry, G. Natta, 261
- Madison, J. T. See Holley, R. W., *et al.*
- Magath, T. B.: *Echinococcus multilocularis* in a beef cow from the Middle West, 632
- Magnetic fields in interplanetary space, L. J. Cahill, Jr., 991
- Magnetic oxidation: a proposed mechanism, U. Colombo *et al.*, 1033
- Magnetism: a decade of conferences (*meeting report*), W. F. Brown, Jr., 73
- Maier, P. See Yagi, Y., *et al.*
- Mair, B. J. See Douglas, A. G.
- MALYUGA, D. P., *Biogeochemical methods of prospecting*, *book review of*, 727
- MAMELAK, J. S., *A textbook on analytical geometry*, *book review of*, 1137
- Mammary tumor virus in mice (*meeting report*), D. H. Moore, 1158
- Mangan, J., *et al.*: Protein synthesis and the mitotic apparatus, 1575
- Manheim, F. T. See Pickwell, G. V., *et al.*
- Mann, S. J., and W. E. Straile: Tylotrich (hair) follicle: association with a slowly adapting tactile receptor in the cat, 1043
- MANN, T., *The biochemistry of semen and of the male reproductive tract*, *book review of*, 727
- MANNERS, R. A. (Ed.), *Process and pattern in culture: essays in honor of Julian Steward*, *book review of*, 850
- MANOWSKI, B. See LAWRENCE, J., *et al.*
- Manpower in biomedical science (*letter*), R. H. Alden, 1523
- Mantovani, A. See Sotgui, G., *et al.*
- Marcus, L., *et al.*: Polysomes from yeast: distribution of messenger RNA and capacity to support protein synthesis in vitro, 615
- MARGENAU, H., *Ethics and science*, *book review of*, 140
- Margolin, P.: Bipolarity of information transfer from the *Salmonella typhimurium* chromosome, 1456
- Marine geology of the Gulf of California, T. H. VAN ANDEL and G. G. SHOR, JR. (Eds.), *book review by* D. W. Scholl, 725
- Marine microorganisms (*meeting report*), M. B. Allen, 638
- Marinkelle, C. J., and E. Grosse: *Histoplasma capsulatum* from the liver of a bat in Columbia, 1039
- MARK, H. F., *et al.* (Eds.), *Encyclopedia of polymer science and technology*, vol. 1, *book review of*, 386
- Marquisee, M. See Holley, R. W., *et al.*
- Mars: the origin of the 3.58- and 3.69-micron minima in the infrared spectra, D. G. Rea and B. T. O'Leary, 1286
- Marshall, L.: *book review of* Elementary particle physics, 1133
- Martian environment, The (*editorial*), P. H. Abelson, 683
- Martin, S. T. See Payne, D. A., Jr., *et al.*
- Massivity in financing research (*letter*), G. Allott, 109
- Mathematical theory of optics, R. K. LUNEBERG, *book review by* J. R. Meyer-Arendt, 1276
- Mathematics: its contents, methods, and meaning, vols. 1-3, A. ALEKSANDROV *et al.*, *book review by* E. P. Vance, 722
- MATHER, K., *The earth beneath us*, *book review of*, 852
- Mathewes, D. A., Jr., *et al.*: Identifying great teachers (*letters*), 556
- Matioli, G. T. See Eylar, E. H.
- Matrices: their meaning and manipulation, W. G. BICKLEY and R. S. H. G. THOMPSON, *book review by* A. B. Wilcox, 285
- Matrix algebra for electrical engineers, R. BRAAE, *book review by* A. B. Wilcox, 285
- Matter of syntax, A (*letter*), R. A. Lewin, 357
- Mattern, C. F. T. See du Buy, H. G., *et al.*
- Mauro, A. See Eisenberg, L., *et al.*
- Mazama and Glacier Peak volcanic ash layers: relative ages, R. Fryxell, 1288
- Mazzoni, A. See Sotgui, G., *et al.*
- McCarty, L. P.: Beware the tax collector (*letter*), 986
- McCue, J. J. G.: Ultrasonics (*meeting report*), 309
- McDonald, T. R. R. See McWhan, D. B., *et al.*
- MCDOWELL, M. R. C. (Ed.), *Atomic collision processes*, *book review of*, 594
- McElheny, V. K. (*Report from Europe*): Britain wields a modernizing ax, 1429; French bomb: how much technical fallout?, The, 35; Progress in seismic recording and analysis, 1271; Time of trial for European Research Cooperation, 280; West Germany debates a "cultural crisis," 589; (*Report from the Middle East*): Israel worries about its applied research, 1123
- McGrath, J. See Adelson, E.
- MCLAREN, A. D., and D. SHUGAR, *Photochemistry of proteins and nucleic acids*, *book review of*, 496
- MCLEAN, F. C., and A. M. BUDY, *Radiation, isotopes, and bone*, *book review of*, 495
- McMaster, P. R. B., *et al.*: Genetic influence on experimental allergic thyroiditis in guinea pigs, 157
- McMurray, W. C.: Bioenergetics (*meeting report*), 413
- McPherson, A. T.: *book review of* Encyclopedia of polymer science and technology, vol. 1, 386
- McWahn, D. B., *et al.*: Superconducting gallium antimonide, 1441
- Meaning of the 20th century: the great transition, The, K. BOULDING, *book review by* P. B. Sears, 1274
- Mécanismes réactionnels en chimie organique, Les, B. TCHOUBAR, *book review by* M. J. S. Dewar, 287
- Mechanical translation: U.S.-Japan joint conference (*meeting report*), F. L. Alt, 1599
- Medicine in the year 2000 (*meeting report*), S. Y. Botelho, 1164
- Meeting Reports: Analytical chemistry in nuclear technology, 523; Antimicrobial agents and chemotherapy, 522; Bioastronautics and space, 314; Bioclimatology,

- 761; Bioenergetics, 413; Biological nitrogen fixation, 310; Biophysics, 186; Calorimetry, 312; Cell synchrony, 175; Communications in unusual media, 181; Correlations of particles emitted in nuclear reactions, 177; Dental caries: a new look, 419; Education in chemistry: United States and Japan, 1163; Ethology and experimental psychology, 634; Evolving genes and proteins, 68; Extracellular matrices, 760; Lactic acids: chemistry and metabolism, 315; Long-lived solid-state circuits, 1472; Magnetism: a decade of conferences, 73; Mammary tumor virus in mice, 1158; Marine microorganisms, 638; Mechanical translation: U.S.-Japan joint conference, 1599; Medicine in the year 2000; Meteorites, 1061; Military problems in cold regions, 71; Minimum ecological systems for man, 184; Nerve as a tissue, 414; Nuclear activation analysis, 415; Nuclear medicine, 761; Oceanography of the western South Atlantic, 183; Paleomagnetism, 1060; Paleopathology, 1160; Protoplasts and L-forms, 635; Radiation preservation of foods, 1600; Radioactive fallout from nuclear weapons tests, 1057; Radiochemical methods of analysis, 182; Radio meteorology, 76; Sensory research discussion: "sonar" and electronic reading for the blind, 1163; Space simulation: man-rated testing and vacuum generation, 523; Space vehicles in an ionized medium, 74; Transformation of peasant societies, 1062; Ultrasonics, 309; The water molecule in biological systems, 179; Vesalius commemoration at Brussels, 1603
- Meetings: do's and don'ts (*letters*), S. C. Coroniti and W. H. Fischer, 679
- Mehrlisch, F. P.: Radiation preservation of foods (*meeting report*), 1600
- Meinke, W. W.: Radiochemical methods of analysis (*meeting report*), 182
- Meier, G. W., *et al.*: Albinism and water escape performance in mice, 307
- MELLOR, M. (Ed.), Antarctic snow and ice studies, *book review of*, 142
- Melnick, J. L. *See* Rapp, F., *et al.*
- MELVILLE, H., and B. G. GOWENLOCK, Experimental methods in gas reactions, *book review of*, 723
- Melzack, R., and B. Schecter: Itch and vibration, 1047
- Mendelsohn, N. *See* Greengard, O., *et al.*
- Merklin, R. L. *See* Hopkins, D. M., *et al.*
- Merrill, A. S., *et al.*: Ancient oyster shells on the Atlantic continental shelf, 398
- Merrill, S. H. *See* Holley, R. W., *et al.*
- Messenger RNA utilization during development of chick embryo lens, R. B. Scott and E. Bell, 405
- Meteorites and the moon, H. C. Urey, 1262
- Meteorites (*meeting report*), C. B. Moore, 1061
- Methods in microanalysis, vol. 1, J. A. KUCK (Ed.), *book review by* P. J. Elving, 1027
- Meyer, K., *et al.*: Extracellular matrices (*meeting report*), 760
- Meyer-Arendt, J. R.: *book review of* Mathematical theory of optics, 1276
- MEYNELL, E. *See* MEYNELL, G. G.
- MEYNELL, G. G., and E. MEYNELL, Theory and practice in experimental bacteriology, *book review of*, 1137
- Michelson, A. *See* Raup, D. M.
- Microorganisms from the Gunflint Chert, E. S. Barghoorn and S. A. Tyler, 563
- Micropuncture study of inulin absorption in the rat kidney, Y. Gutman *et al.*, 753
- MIDONICK, H. O. (Ed.), The treasury of mathematics, *book review of*, 1437
- MIKHLIN, S. G., Integral equations, *book review of*, 1133
- Miki-Noumura, T. *See* Mangan, J., *et al.*
- Military problems in cold regions (*meeting report*), C. R. Kolb, 71
- Millard, H. T., Jr.: Thermal neutron activation: measurement of cross section for manganese-53, 503
- MILLER, A. H., and R. C. STEBBINS, The lives of desert animals in Joshua Tree National Monument, *book review of*, 1278
- Miller, C. *See* Pollard, E. C., *et al.*
- Miller, D. W., *book review of* Real numbers, 853
- Milton, D. J. *See* De Carli, P. S.
- Mineralogic changes during growth in the red alga, *Clathromorphum compactum*, K. E. Chave and B. D. Wheeler, Jr., 621
- Minimum ecological systems for man (*meeting report*), D. H. Calloway, 184
- Minkowski, R.: *book review of* Reference catalogue of bright galaxies, 1568
- Molecular biology: genes and the chemical control of living cells, J. M. Barry, *book review by* E. W. Hanly, 141
- Molecular mimicry in biological adaptation (*letter*), R. T. Damian, 824
- Molecules and monkeys, J. Buettner-Janusch and R. L. Hill, 836
- MOLL, J. L., Physics of semiconductors, *book review of*, 851
- Möller, E.: Contact-induced cytotoxicity by lymphoid cells containing foreign isoantigens, 873
- Moloney virus-induced leukemias of mice: measurement in vitro of specific antigen, G. Haughton, 506
- Mommaerts, W. F. H. M., and C. D. O'Malley: Vesalius commemoration at Brussels (*meeting report*), 1603
- Montanerelli, N. *See* Polley, E. H., *et al.*
- MONTGOMERY, D. C., and D. A. TIDMAN, Plasma kinetic theory, *book review of*, 493
- Moore, C. B.: Meteorites (*meeting report*), 1061
- Moore, D. H.: Mammary tumor virus in mice (*meeting report*), 1158
- Moore, F. D.: *book review of* Dynamic clinical studies with radioisotopes, 39
- Moore, R. Y. *See* Heller, A., *et al.*
- Mössbauer effect: principles and applications, G. K. WERTHEIM, *book review by* A. J. Bearden, 1139
- Mosses of Michigan, The, H. T. DARLINGTON, *book review by* L. E. Anderson, 389
- Moth sounds and the insect-catching behavior of bats, D. C. Dunning and K. D. Roeder, 173
- Motion of charged particles in the earth's magnetic field, J. W. CHAMBERLAIN, *book review by* G. C. Reid, 1567
- Mueller, P. S. *See* McMaster, P. R. B., *et al.*
- Mullins, C. G. *See* Griffith, L. J., *et al.*
- Munsinger, H. *See* Hershenson, M., *et al.*
- Mutagenicity of a monofunctional alkylating agent derivative of acridine in *Neurospora*, H. E. Brockman and W. Goben, 750

N

- Namias, J.: Short-period climatic fluctuations, 696
- Narasimulu, S. *See* Cooper, D. Y., *et al.*
- Nature of matter: purposes of high energy physics, The, L. C. L. Yuan *et al.*, 1548
- Nidey, R. A.: *book review of* Lunar missions and exploration, 1566
- NIH career awards (*letter*), I. D. J. Bross, 1395
- Natta, G.: Macromolecular chemistry, 261
- Natural beauty and conservation (*editorial*), P. H. Abelson, 1245
- Needless pains caused by heedless editors (*letter*), I. H. Page, 1241
- NE'EMAN, Y. *See* GELL-MANN, M.
- Nelson, W.: *book review of* The physiology of diurnal rhythms, 387
- Neon isotope fractionation during transient permeation, S. N. I. Rama and S. R. Hart, 737
- Nerve as a tissue (*meeting report*), K. Rodahl, 414
- Neuman, R. B.: *book review of* The geology of Howard and Montgomery counties, 497
- Neuroendocrinology, E. SCHARRER and B. SCHARRER, *book review by* G. Farrell, 1136
- Neurosecretory processes extending into third ventricle: secretory or sensory?, C. G. Smoller, 882
- New directions in the study of language, E. H. LENNEBERG (Ed.), *book review by* C. N. Cofer, 1023
- NEWELL, N. *See* IMBRIE, J.
- Newlin, M. R.: Aid for the University of Skopje (*letter*), 238
- News and Comment: academic degrees, 844; Arms Control and Disarmament Agency, 584; arts and humanities, 273; atoms for peace, 843; Breakthrough Institute, 29; college presidents, 380; Congress and drugs, 846; Congress and science, 582; desalination, 1117; education message, 382; Elliott Committee, 131 (*erratum*, 491); federal aid for education, 30; food processing, 132; government and science, 134; Lysenko, 716; Mohole, 487; moon-landing program, 381; NSF annual report, 1014; nuclear accelerator, 1423; Public Health Service, 276; quackery and the elderly, 1119; R&D budget, 485; school aid bill, 717; scientists and space, 1269; Secretary of Commerce, 32; Frederic Seitz, 715; Smithsonian Institute, 1266; solar boat, 1559; Title VI, 488; veterans' medicine, 1426; Weston E. Vivian, 1016; water pollution, 1018; weather modification, 274; Woolbridge Committee, 1556
- Nicklas, R. B., and R. A. Jaqua: X chromosome DNA replication: developmental shift from synchrony to asynchrony, 1041
- Nieburger, H. L.: *book review of* The relevance of science: creation and cosmogony, 1434
- NIEHOFF, A. H. *See* ARENSBERG, C. M.
- Nirenberg, M. W. *See* Bernfield, M. R.
- Noggle, G. R.: *book review of* Physiological basis of salt tolerance of plants, 142
- Nooner, D. W. *See* Oró, J., *et al.*
- No quarter for humanities (*letter*), L. La Fave, 1242
- Noradrenaline stores in nerve terminals of the spleen: changes during hemorrhagic shock, A. B. Dahlström and B. E. M. Zetterström, 1583
- Norling, P. M. *See* Bevilacqua, E. M.
- Norman, A., *et al.*: Lymphocyte lifetime in women, 745
- Norris, K. S.: Trained porpoise released in the open sea, 1048
- Novick, S.: Cesium-37 in Alaskans, 1598
- Noyes, R. W., *et al.*: Pronuclear ovum from a patient using an intrauterine contraceptive device, 744
- Noyes, W. A.: *book review of* Experimental methods in gas reactions, 723
- Nuclear activation analysis (*meeting report*), V. P. Guinn and R. E. Wainerdi, 415
- Nuclear magnetic resonance studies of living muscle, C. B. Bratton *et al.*, 738
- Nuclear medicine (*meeting report*), D. B. Sodee, 761
- Nuclear power, U.S.A., W. H. ZINN *et al.*, *book review by* J. D. Cockcroft, 721
- Nuclear radiation detection, W. J. PRICE, *book review by* I. R. Williams, 391

- Nuclear radiation detectors, J. SHARPE, *book review* by I. R. Williams, 391
 Nucleon structure, R. HOFSTADTER and L. I. SCHIFF (Eds.), *book review* by S. B. Treiman, 494
 Nyquist, R. A.: *book review* of Handbook of industrial infrared analysis, 1277

O

- Oberhettinger, F.: *book review* of A course of mathematical analysis, vol. 2, 1563
 O'Brien, H. H. *See* Fox, S. S.
 O'Brien, J. S.: Stability of the myelin membrane, 1099
 Observational neutrino astronomy, J. N. Bahcall, 115
 Oceanography at inland universities (*letter*), R. A. Ragotzkie, 1396
 Oceanography of the western South Atlantic (*meeting report*), H. L. Sanders, 183
 ODISHAW, H. (Ed.), Research in geophysics, vol. 2, *book review* of, 286
 Offenloch, K. *See* Klee, M. R., *et al.*
 Ogur, M., *et al.*: Tricarboxylic acid cycle mutants in *saccharomyces*: comparison of independently derived mutants, 1590
 Ogur, S. *See* Ogur, M., *et al.*
 Oishi, K. *See* Sakaguchi, B., *et al.*
 Olausson, E.: *book review* of The deep and the past, 854
 Oldham, C. H. G.: Science in mainland China: a tourist's impressions, 706
 O'Leary, B. T. *See* Rea, D. G.
 Olson, R. E.: Vitamin K-induced prothrombin formation: correction, 66
 O'Malley, C. D. *See* Mommaerts, W. F. H. M.
 O'Neal, D. *See* Woods, F. W.
 Ontogeny of adventive embryos of wild carrot, W. Halperin and D. F. Wetherell, 756
 Ontogeny of a salt marsh estuary, A. C. Redfield, 50
 Optical second-harmonic generation in crystalline amino acids, K. E. Rieckhoff and C. L. Peticolas, 610
 Orange, A.: Communications in unusual media (*meeting report*), 181
 Organic complexing reagents: structure, behavior, and application to inorganic analysis, D. D. PERRIN, *book review* by H. Diehl, 724
 Organic name reactions, H. KRAUCH and W. KUNZ, *book review* by J. F. Bunnett, 726
 Origin and evolution of atmospheres and oceans, The, P. J. BRANCAZIO and A. G. W. CAMERON (Eds.), *book review* by P. E. Cloud, Jr., 1021
 Oró, J., *et al.*: Paraffinic hydrocarbons in pasture plants, 870
 Osoba, D.: Immune reactivity in mice thymectomized soon after birth: normal response after pregnancy, 298
 Ostenson, N. A., *et al.*: Geological interpretation of aeromagnetic profiles, 1052
 Ostrander, W. E. *See* Griffith, L. J., *et al.*
 Ottoman, R. E. *See* Norman, A., *et al.*
 Our plant resources, F. L. FITZPATRICK, *book review* by M. Wirth, 391
 Ozone: decomposition by ionizing radiation, P. Harteck *et al.*, 393
- P
- Pacific tropical botanical garden, A (*editorial*), P. B. Sears, 241
 Padilla, G. M., *et al.*: Cell synchrony (*meeting report*), 175
- Page, I. H.: Needless pain caused by heedless editors (*letter*), 1241
 Page, T.: *book review* of Solar system astrophysics, 386
 Paleomagnetism (*meeting report*), J. Verhoogen, 1060
 Paleomagnetism and its application to geological and geophysical problems, E. IRVING, *book review* by A. Cox, 494
 Paleopathology (*meeting report*), S. Jarcho, 1160
 Pallas, J. E., Jr.: Transpiration and stomatal opening with changes in carbon dioxide content of the air, 171
 Palm, J. *See* Billingham, R. E., *et al.*
 Palmer, B. D. *See* Kuroda, P. K., *et al.*
 Palmer, H. E., *et al.*: Radioactivity measured in Alaskan natives, 1962-1964, 620
 Palmer, J. *See* Sotgui, G., *et al.*
 Paraffinic hydrocarbons in pasture plants, J. Oró *et al.*, 870
 Parks, W. G.: Gordon research conferences: program for 1965, 1312
 Particle size fractionation of airborne gamma-emitting radionuclides by graded filters, B. Shleien *et al.*, 290; *erratum*, 589
 Particulate clouds: dusts, smoke, and mists, H. L. GREEN and W. R. LANE, *book review* by A. J. Haagen-Smit, 855
 Pattee, P. A. *See* Zyskind, J. W., *et al.*
 Payne, D. A., Jr., *et al.*: The smartest people (*letters*), 357
 Peacock, A. C., *et al.*: Serum protein electrophoresis in acrylamide gel: patterns from normal human subjects, 1451
 Peierls, R. F.: *book review* of Strong, electromagnetic, and weak interactions, 285
 Penswick, J. R. *See* Holley, R. W., *et al.*
 Peptide synthesis from amino acids in aqueous solution, C. Ponnampuruma and E. Peterson, 1572
 Perception of stroboscopic movement: evidence for its innate basis, I. Rock *et al.*, 1050
 Péridotites serpentinisées en France, Les, group 1, pt. 4, F. H. FORESTIER, *book review* by T. P. Thayer, 1137
 Perlman, D. *See* Lepper, M. H.
 Permeability of insect cuticle to water and lipids, M. Locke, 295
 PERRIN, D. D., Organic complexing reagents: structure, behavior, and application to inorganic analysis, *book review* of, 724
 Persson, K.-B.: *book review* of Plasma spectroscopy, 284
 PESCHON, J. (Ed.), Disciplines and techniques of systems control, *book review* of, 1564
 PETERS, J. A., Dictionary of herpetology, *book review* of, 43
 Peterson, A. E.: Desalination and agriculture (*letter*), 1087
 Peterson, E. *See* Ponnampuruma, C.
 Peticolas, W. L. *See* Rieckhoff, K. E.
 Petrov, O. M. *See* Hopkins, D. M., *et al.*
 PFLEIDERER, W., and E. C. TAYLOR (Eds.), Pteridine chemistry, *book review* of, 728
 Philips, M.: *book review* of An introduction to radioactivity, 42
 Philosophical problems of space and time, A. GRÜNBAUM, *book review* by W. C. Salmon, 724
 Phospholipids: chemistry, metabolism, and function, G. B. ANSELL and J. N. HAWTHORNE, *book review* by J. H. Law, 286
 Photochemical action spectrum of the terminal oxidase of mixed function oxidase systems, D. Y. Cooper *et al.*, 400
- Photochemistry of proteins and nucleic acids, A. D. MCLAREN and D. SHUGAR, *book review* by R. B. Setlow, 496
 Photoelectric effects in semiconductors, S. M. RYVKIN, *book review* by A. Rose, 1565
 Physicochemical principles of igneous petrology, The, A. N. ZAZARITSKII and V. S. SOBOLEV, *book review* by G. C. Kennedy, 1566
 Physics and astronomy of meteors, comets, and meteorites, The, G. S. HAWKINS, *book review* by F. W. Wright, 1136
 Physics of semiconductors, J. L. MOLL, *book review* by W. H. Ko and A. B. Kuper, 851
 Physiological basis of salt tolerance of plants, B. P. STROGOV, *book review* by G. R. Noggle, 142
 Physiology of diurnal rhythms, The, J. E. HARKER, *book review* by W. Nelson, 387
 Phytodienes in zooplankton, M. Blumer and D. W. Thomas, 1148
 Pickwell, G. V., *et al.*: Reprint system debated (*letters*), 677
 Pierce, J. *See* Carterette, E. C., *et al.*
 Pimental, G. C.: Exams: the college boards in chemistry (*letter*), 8. *See also* Shirk, J. S., *et al.*
 Pinney, E.: *book review* of Generalized functions and direct operational methods, vol. 1, 40
 Pinsky, L., and A. M. DiGeorge: Cleft palate in the mouse: a teratogenic index of glucocorticoid potency, 402
 Pirone, F. J.: "Cancer virus" feared (*letter*), 459
 PITTMAN, F. K. *See* ZINN, W. H., *et al.*
 Plant parasitic nematodes: a new mechanism for injury of hosts, D. R. Vigliorichio and P. K. Yu, 1301
 Plasma kinetic theory, D. C. MONTGOMERY and T. A. TIDMAN, *book review* by R. S. Powers, 493
 Plasma spectroscopy, H. R. GRIEM, *book review* by K.-B. Persson, 284
 PLATT, J. R., *et al.*, Free-electron theory of conjugated molecules: a source book, *book review* of, 1434
 Podolsky, R. J. *See* Costantin, L. L., *et al.*
 Pogany, G. S. *See* Rose, F. L., *et al.*
 Pollard, E. C., *et al.*: Ionizing radiation: effect of irradiated medium on synthetic processes, 1045
 Pollen from Alaska and the origin of ice ages, W. L. Donn and M. Ewing; P. A. Colvinaux, 632
 Pollen physiology and fertilization, H. F. LINSKENS (Ed.), *book review* by A. O. Dahl, 602
 Polley, E. H., *et al.*: Botulinum toxin, type A: effects on central nervous system, 1036
 Polymorphic spermatozoa in the hymenopterous wasp *Dahlbominus*, P. E. Lee and A. Wilkes, 1445
 Polypeptide chains of antibody: effective binding sites require specificity in combination, O. A. Rohlt *et al.*, 613
 Polysomes from yeast: distribution of messenger RNA and capacity to support protein synthesis in vitro, L. Marcus *et al.*, 615
 Poneleit, C. G., and D. E. Alexander: Inheritance of linoleic and oleic acids in maize, 1585
 Ponnampuruma, C., and E. Peterson: Peptide synthesis from amino acids in aqueous solution, 1572
 Poor are getting richer, The (*letter*), F. S. Barnes, 823
 Porcher, W. *See* Heller, A., *et al.*
 Porter, M. *See* Sackett, G. P., *et al.*
 Potassium content of illite, C. E. Weaver, 603
 Poulik, E. *See* Goodman, M., *et al.*

Powell, A. C., and D. J. Ingle: Why equality? (*letters*), 6

Powers, R. S.: *book review* of Plasma kinetic theory, 493

Prager, D. J., *et al.*: Constant volume, self-filling nanoliter pipette: construction and calibration, 606

Precipitous continental slopes and considerations on the transitional crust, C. Emiliani, 145

Preference for shapes of intermediate variability in the newborn human, M. Hershenson *et al.*, 630

Prenatal auditory sensitivity in chickens and ducks, G. Gottlieb, 1596

Press, F., and D. Jackson: Alaskan earthquake, 27 March 1964: vertical extent of faulting and elastic strain release, 867

Pressman, D. *See* Roholt, O. A., *et al.* *See also* Yagi, Y., *et al.*

Pressure dependence of the alpha-beta transition temperature in silver selenide, M. D. Banus, 732

Pressure-induced color mutation of *Euglena gracilis*, J. A. Gross, 741

Price, G. B.: *book review* of The elements of real analysis, 497

PRICE, W. J., Nuclear radiation detection, *book review* of, 391

Primate research and systematics, P. Hershkovitz and P. D. MacLean, 1156

Primate retina: duplex function of dark-adapted ganglion cells, P. Gouras, 1593

Principles and methods of chemical analysis, H. F. WALTON, *book review* by H. A. Laitinen, 1433

Principles of radiation protection, G. EAVES, *book review* by J. B. H. Kuper, 388

Probiotics: growth-promoting factors produced by microorganisms, D. M. Lilly and R. H. Stillwell, 747

Process and pattern in culture: essays in honor of Julian Steward, R. A. MANNERS (Ed.), *book review* by E. A. Hoebel, 850

Production of oosporein and its leucoform by basidiomycete species, H. Takeshita and M. Anchel, 152

Productivity measure disputed (*letter*), H. Wooster, 1524

Projective and related geometrics, H. LEVY, *book review* by B. L. Reinhart, 1023

PROMISEL, N. E. (Ed.), The science and technology of tungsten, tantalum, molybdenum, niobium, and their alloys, *book review* of, 138

Pronuclear ovum from a patient using an intrauterine contraceptive device, R. W. Noyes *et al.*, 744

Propagation of electromagnetic waves in plasma, The, V. L. GINSBURG, *book review* by A. J. Estlin, 1563

Protein synthesis and the mitotic apparatus, J. Mangan *et al.*, 1575

Protein synthesis inhibition: mechanism for the production of impaired fat absorption, S. M. Sabesin and K. J. Isselbacher, 1149

Protoplasts and L-forms (*meeting report*), T. R. Hamilton, 635

Protozoa: the simplest of all animals, R. P. HALL, *book review* by E. N. Kozloff, 723

Pteridine chemistry, W. PFLEIDERER and E. C. TAYLOR (Eds.), *book review* by H. R. Snyder, 728

Pugh, H. G.: Correlations of particles emitted in nuclear reactions (*meeting report*), 177

Pullman, B., *et al.*: Intermolecular forces in association of purines with polycyclic aromatic hydrocarbons, 1305

Putnam, F. W. *See* Titani, K.

Pyramidal tract: a comparison of two prosimian primates, J. A. Jane *et al.*, 153

Q

Quantum theory and the many-body problem, T. D. SCHULTZ, *book review* by A. O. Barut, 1275

Quartz: anomalous weakness of synthetic crystals, D. T. Griggs and J. D. Blacic, 292

Quaternary correlations across Bering Strait, D. M. Hopkins *et al.*, 1107

Queen, K. G. *See* Peacock, A. C., *et al.*

R

RABINOWITCH, E., and R. L. BELFORD, Spectroscopy and photochemistry of uranyl compounds, *book review* of, 392

Rabotti, G. F., *et al.*: Brain tumors (gliomas) induced in hamsters by Byran's strain of Rous sarcoma virus, 504

Radiation hazards in space, D. L. Dye and M. Wilkinson, 19

Radiation, isotopes, and bone, F. C. McLEAN and A. M. BUDY, *book review* by H. C. Hodge, 495

Radiation preservation of foods (*meeting report*), F. P. Mehrlich, 1600

Radioactive fallout from nuclear weapons tests (*meeting report*), E. W. Bierly and A. W. Klement, Jr., 1057

Radioactivity measured in Alaskan natives, 1962-1964, H. E. Palmer *et al.*, 620

Radiocarbon and soil evidence of former forest in the southern Canadian tundra, R. A. Bryston *et al.*, 46

Radiocarbon dates from a tomb in Mexico, P. T. Furst, 612

Radiochemical methods of analysis (*meeting report*), W. W. Meinke, 182

Radio frequency stimulation: a research and clinical tool, L. Eisenberg *et al.*, 578; *erratum*, 1122

Radioisotopes and radiation: recent advances in medicine, agriculture, and industry, J. LAWRENCE *et al.*, *book review* by J. D. Cockcroft, 721

Radio meteorology (*meeting report*), J. W. Herbstreit, 76

Radzinski, G. *See* Roholt, O. A., *et al.*

Ragotzkie, R. A.: Oceanography at inland universities, 1396

Raine, W. A. *See* Rabotti, G. F., *et al.*

Ram, J. S. *See* Pickwell, G. V., *et al.*

Rama, S. N. I., and S. R. Hart: Neon isotope fractionation during transient permeation, 737

Rao, M. N. *See* Kuroda, P. K., *et al.*

Rapp, F., *et al.*: Tumor and virus antigens of simian virus 40: differential inhibition of synthesis by cytosine arabinoside, 625

Rapp, H. J. *See* Frank, M. M., *et al.*

Raup, D. M., and A. Michelson: Theoretical morphology of the coiled shell, 1294

Rea, D. G., and B. T. O'Leary: Mars: the origin of the 3.58- and 3.69-micron minima in the infrared spectra, 1286

Reagan, M. D. *See* Hoover, S. R., *et al.*

Real numbers, S. DROBOT, *book review* by D. W. Miller, 853

Recognizing the emergence of man, R. Ascher and M. Ascher, 243

Redfield, A. C.: Ontogeny of a salt marsh estuary, 50

Reference catalogue of bright galaxies, G. DE VAUCOULEURS and A. DE VAUCOULEURS, *book review* by R. Minkowski, 1568

Reid, G. C.: *book review* of Motion of charged particles in the earth's magnetic field, 1567

Reinhart, B. L.: *book review* of Projective and related geometrics, 1023

Reklys, E. *See* Goodman, M., *et al.*

Relative radiosensitivities of woody and herbaceous spermatophytes, R. C. Sparrow and A. H. Sparrow, 1449

Relevance of science: creation and cosmogony, The, C. F. VON WEIZSÄCKER, *book review* by H. L. Nieburg, 1434

Reovirus hemagglutination: inhibition by N-acetyl-D-glucosamine, L. D. Gelb and A. M. Lerner, 404

Report from Europe: Britain wields a modernizing ax, 1429; The French bomb: how much technical fallout?, 35; Progress in seismic recording and analysis, 1271; Time of trial for European Research Cooperation, 280; West Germany debates a "cultural crisis," 589

Report from the Middle East: Israel worries about its applied research, 1123

Reprint system debated (*letters*), G. V. Pickwell and E. Douglas *et al.*, 677

Research and purpose (*letters*), S. R. Hoover *et al.*, 1523

Research in geophysics, vol. 2, H. ODI-SHAW (Ed.), *book review* by S. P. Clarke, Jr., 286

Research, U.S.A.: knowledge for the future, A. V. CREWE and J. J. KATZ, *book review* by J. D. Cockcroft, 721

Reversibility of reaction of potassium with liquid ammonia, E. J. Kirschke and W. L. Jolly, 45

Ribonucleic acids of the *Ilyanassa* embryo, J. R. Collier, 150

Ricchiuti, N. V. *See* Gibbs, C. L.

Rice, C. E. *See* Schusterman, R. J., *et al.*

RICH, C. I., and G. W. KUNZE (Eds.), Soil clay mineralogy, *book review* of, 1276

Richards, D. W. *See* Meyer, K., *et al.*

RICHARDS, J. H., and J. B. HENDRICKSON, The biosynthesis of steroids, terpenes, and acetogenins, *book review* of, 142

Richardson, A. M. *See* Vance, V. J., *et al.*

Richardson, L. *See* Pickwell, G. V., *et al.*

Rieckhoff, K. E., and W. L. Peticolas: Optical second-harmonic generation in crystalline amino acids, 610

Riggs, A.: Hemoglobin polymerization in mice, 621

Riggs, J. L., and E. H. Lennette: Simian virus 40: isolation of two plaque types, 408

Riley, F. L. *See* du Buy, H. G., *et al.*

Ringenberg, L. A.: *book review* of Fundamentals of modern mathematics, 43

Ritter, H., Jr.: Blood of a cockroach: unusual cellular behavior, 518

RNA codewords and protein synthesis, M. R. Bernfield and M. W. Nirenberg, 479

Robbins, W. E., *et al.*: Feeding stimulants for the female house fly, *Musca domestica* Linnaeus, 628

Roberts, R. W., and L. E. St. Pierre, Ultrahigh vacuum, 1529

Roberts, W. O.: Atmospheric research: a powerful concept emerges, 1093

Robertson, A. D. J., and C. R. Evans: Single-unit activity in the cat's visual cortex: modification after an intense light flash, 303

Rock, I., *et al.*: Perception of stroboscopic movement: evidence for its innate basis, 1050

Rodahl, K.: Nerve as a tissue (*meeting report*), 414

Rodwell, V. W. *See* Fimognari, G. M.

Roeder, K. D. *See* Dunning, D. C.

ROESSLER, E. R. *See* ALDER, H.

Roholt, O. A., *et al.*: Polypeptide chains of antibody: effective binding sites require specificity in combination, 613

Rose, A.: *book review* of Photoelectric effects in semiconductors, 1565

Rose, F. L., *et al.*: Hepatic glycogen depletion in *Amphiuma* during induced anoxia, 1467

Rosenberg, P. E. *See* French, B. M.

- Rosenthal, O. *See* Cooper, D. Y., *et al.*
 Roshanmanesh, A. *See* Ogur, M., *et al.*
 Roy, R. *See* Bates, C. H., *et al.*
 Rubin, M. *See* Merrill, A. S., *et al.*
 RUDY, W., Schools in an age of mass culture, *book review of*, 1274
 Ruegg, J. C. *See* Filo, R. S., *et al.*
 Russell, A. M.: A calculus for journal publishers (*letter*), 110
 Russell, R. J.: *book review of* The coastline of England and Wales, 1562
 Russian-English dictionary of statistical terms and expressions and Russian reader in statistics, S. KOTZ, *book review by* E. Lukacs, 143
 RYVKIN, S. M., Photoelectric effects in semiconductors, *book review of*, 1565

S

- Sabesin, S. M., and K. J. Isselbacher: Protein synthesis inhibition: mechanism for the production of impaired fat absorption, 1149
 Sabu, D. D. *See* Kuroda, P. K., *et al.*
 Sackett, G. P., *et al.*: Choice behavior in rhesus monkeys: effect of stimulation during the first month of life, 304
 St. Pierre, L. E. *See* Roberts, R. W.
 St. Pierre, R. L., and G. A. Ackerman: Bursa of Fabricius in chickens: possible humoral factor, 1307
 Sakaguchi, B., *et al.*: Interference between "sex-ratio" agents of *Drosophila willistoni* and *Drosophila nebulosa*, 160
 Salisbury, G. W.: *book review of* The biochemistry of semen and of the male reproductive tract, 727
 Salmon, W. C.: *book review of* Philosophical problems of space and time, 724
 Sanders, H. L.: Oceanography of the western South Atlantic (*meeting report*), 183
 Sanderson, R. P. *See* Landy, M., *et al.*
 Sarcoplasmic reticulum: ultrastructure of the triadic junction, W. H. Fahrenbach, 1308
 Sargent, F. II, and S. Itoh: Bioclimatology (*meeting report*), 761
 Sasaki, M. S. *See* Norman, A., *et al.*
 Saunders, J. F.: The water molecule in biological systems (*meeting report*), 179
 Savile, D. B. O.: Spore discharge in basidiomycetes: a unified theory, 165
 SCHARRER, B. *See* SCHARRER, E.
 SCHARRER, E., and B. SCHARRER, Neuroendocrinology, *book review of*, 1136
 Schechter, B. *See* Melzack, R.
 SCHIELER, L. *See* SIEGEL, B.
 SCHIFF, L. I. *See* HOFSTADTER, R.
 Schild, A.: *book review of* Differential equations of mathematical physics, 596
 Schimpl, A., *et al.*: Cyanamide formation under primitive earth conditions, 149
 Sclar, C. B., *et al.*: Indium telluride (II'): transitory intermediate phase in the transformation InTe(II) to InTe(I), 1569
 Schoenfeld, W. N., and S. H. Baron: Ethology and experimental psychology (*meeting report*), 634
 School laboratory supplies (*editorial*), D. Wolfe, 827
 Schools in an age of mass culture, W. RUDY, *book review by* D. H. Calhoun, 1274
 SCHULTZ, T. D., Quantum theory and the many-body problem, *book review of*, 1275
 Schusterman, R. J., *et al.*: Underwater visual discrimination by the California sea lion, 1594
 Schwartz, C. M. *See* Sclar, C. B., *et al.*
 Schwinger, J. *See* Yuan, L. C. L.
 Science and technology of tungsten, tantalum, molybdenum, niobium, and their alloys, The, N. E. PROMISEL (Ed.), *book review by* L. M. Kushner, 138
 Science in mainland China: a tourist's impressions, C. H. G. Oldham, 706
 Science self-generated (*letter*), F. E. Hahn, 823
 Science, technology, and the gold drain (*editorial*), P. H. Abelson, 989
 Scientific age: the impact of science on society, The, L. V. BERKNER, *book review by* P. B. Sears, 1274
 Scott, R. B., and E. Bell: Messenger RNA utilization during development of chick embryo lens, 405
 Screw dislocations in graphite, G. R. Hennig, 733
 SEABORG, G., and D. M. WILKES, Education and the atom: an evaluation of government's role in science education and information, especially as applied to nuclear energy, 721
 Sears, P. B. (*editorial*): A Pacific tropical botanical garden, 241; *book review of* The meaning of the 20th century: the great transition, The scientific age: the impact of science on society, 1274
 Sebeok, T. A.: Animal communication, 1006; *book review of* Animal communication, 492
 Sedimentation velocity experiments: position and motion of Schlieren peaks, J. A. Faucher and J. V. Koleske, 1152
 Seibert, W. F. *See* Snow, R. E.
 Seiden, L. S. *See* Heller, A., *et al.*
 Self-regulating systems in populations of animals, V. C. Wynne-Edwards, 1543
 Sellers, R. L. *See* Rabotti, G. F., *et al.*
 Sensenig, E. C.: *book review of* The human embryo, 857
 Sensory research discussion: "sonar" and electronic reading for the blind (*meeting report*), H. Freiburger, 1163
 Serum protein electrophoresis in acrylamide gel: patterns from normal human subjects, A. C. Peacock *et al.*, 1451
 Setlow, R. B.: *book review of* Photochemistry of proteins and nucleic acids, 496
 SHABAT, B. V. *See* FUCHS, B. A.
 SHARPE, J., Nuclear radiation detectors, *book review of*, 391
 SHAW, A. B., Time in stratigraphy, *book review of*, 1026
 Shelper, H. G.: *Book review of* Unusual environments and human behavior, 855
 Shinkin, M. B. *See* Abell, C. W., *et al.*
 Shirk, J. S., *et al.*: Sinton bands: evidence for deuterated water on Mars, 48
 Shleien, B., *et al.*: Particle size fractionation of airborne gamma-emitting radionuclides by graded filters, 290; *erratum*, 589
 SHOR, G. G., JR. *See* VAN ANDEL, T. H.
 Short-period climatic fluctuations, J. Namias, 696
 Shorting, T. J. *See* Robbins, W. E., *et al.*
 Shriner, R. B. *See* Holden, P., *et al.*
 SHRINER, R. L., *et al.*, The systematic identification of organic compounds, *book review of*, 139
 SHUGAR, D. *See* MCLAREN, A. D.
 Siderite: thermal decomposition in equilibrium with graphite, B. M. French and P. E. Rosenberg, 1283
 SIEGEL, B., and L. SCHIELER, Energetics of propellant chemistry, *book review of*, 1435
 Siemens, D. F., Jr. *See* Stephenson, C. B.
 Silvers, W. K. *See* Billingham, R. E., *et al.*
 Simian virus 40: isolation of two plaque types, J. L. Riggs and E. H. Lennette, 408
 Simpson, D. R.: Carbonate in hydroxylapatite, 501
 Simpson, G. G.: *book review of* Heredity and the nature of man, 392; Long-abandoned views (*letter*), 1397
 Singer, S. F.: Space vehicles in an ionized medium (*meeting report*), 74
 Single-unit activity in the cat's visual cortex: modification after an intense light flash, A. D. J. Robertson and C. R. Evans, 303
 Sinton bands: evidence for deuterated water on Mars, J. S. Shirk *et al.*, 48
 SIRKS, M. J., and C. ZIRKLE, The evolution of biology, *book review of*, 42
 Sironi, G. *See* Colombo, U., *et al.*
 Slatis, H. M.: *book review of* The basis of human evolution, 389
 Slifkin, L.: *book review of* Atomic migration in crystals, 1132
 Smartest people, The (*letters*), D. A. Payne, Jr., *et al.*, 357
 SMIRNOV, M. M. *See* KOSHYAKOV, N. S., *et al.*
 Smith, A., *et al.*: Absence of taste-bud papillae in familial dysautonomia, 1040
 Smith, A. C.: *book review of* Genera of flowering plants (Angiospermae), vol. 1, 1561
 Smith, D. M. *See* Trembley, F. J., *et al.*
 Smith, L. H.: Changes in the tail feathers of the adolescent lyrebird, 510
 Smith, T. G., *et al.*: Electrical connections between visual cells in the ommatidium of *Limulus*, 1446
 Smoller, C. G.: Neurosecretory processes extending into third ventricle: secretory or sensory?, 882
 Snow, R. E., and W. F. Seibert: Testing: the phrenological approach (*letter*), 109
 Snyder, H. R.: *book review of* Pteridine chemistry, 728
 SOBOLEV, V. S. *See* ZAZARITSKII, A. N.
 Social science research on Latin America, C. WAGLEY (Ed.), *book review by* B. Anderson, 1564
 Sodee, D. B.: Nuclear medicine (*meeting report*), 761
 Sodium pump: its electrical effects in skeletal muscle, A. S. Frumento, 1442
 Soil clay mineralogy, C. I. RICH and G. W. KUNZE (Eds.), *book review by* J. C. Hathaway, 1276
 Solar astronomy neglected (*letter*), R. H. Howard *et al.* and A. E. Whitford, 1087
 Solar system astrophysics, J. C. BRANDT and P. W. HODGE, *book review by* T. Page, 386
 Some lessons in mathematics, T. J. FLETCHER (Ed.), *book review by* P. J. Hilton, 138
 Sorokin, S. M. (Ed.): *book review of* Electron microscopic anatomy, 288
 Sotgui, G., *et al.*: *Histoplasma capsulatum*: occurrence in soil from the Emilia-Romagna region in Italy, 624
 Soviet search for viruses that cause chronic neurologic diseases in the U.S.S.R., J. A. Brody *et al.*, 1114
 Space simulation: man-rated testing and vacuum generation (*meeting report*), A. C. Bond, 523
 Space vehicles in an ionized medium (*meeting report*), S. F. Singer, 74
 Spandex elastic fibers, E. M. Hicks, Jr., *et al.*, 373
 Sparrow, A. H. *See* Sparrow, R. C.
 Sparrow, R. C., and A. H. Sparrow: Relative radiosensitivities of woody and herbaceous spermatophytes, 1449
 Species and geographic differences in the transferrin polymorphism of

- macaques, M. Goodman *et al.*, 884
 Speckman, J. A.: *book review* of Introduction to probability and statistics, 1138
 Spectroscopy and photochemistry of uranyl compounds, E. RABINOWITCH and R. L. BELFORD, *book review* by L. H. Jones, 392
 Spore discharge in basidiomycetes: a unified theory, D. B. O. Savile, 165
 Spreading depression and recovery from lateral hypothalamic damage, P. Teitelbaum and J. Cytawa, 61
 Springer, G.: *book review* of Functions of a complex variable, vol. 1, 39
 Stability of the myelin membrane, J. S. O'Brien, 1099
 STAMM, A. J., Wood and cellulose science, *book review* of, 595
 Staphylocytic substance from a species of *Pseudomonas*, J. W. Zyskind *et al.*, 1458
 Statistics and experimental design in engineering and the physical sciences, vols. 1 and 2, N. L. JOHNSON and F. C. LEONE, *book review* by H. H. Ku, 1025
 STEBBINS, R. C. See MILLER, A. H.
 STEERS, J. A., The coastline of England and Wales, *book review* of, 1562
 Steinman, G., *et al.*: Dicyandiamide: possible role in peptide synthesis during chemical evolution, 1574
 Stephenson, C. B., and D. F. Siemens, Jr.: Who proved Galileo right? (*letters*), 8
 Steroid drugs, vol. 2, N. APPLEZWEIG, *book review* by W. G. Weist, 596
 Stillwell, R. H. See Lilly, D. M.
 Stimpfling, J. H. See Cudkowicz, G.
 Stishovite: synthesis by shock wave, P. S. De Carli and D. J. Milton, 144
 Straile, W. E. See Mann, S. J.
 Strain, H. H.: *book review* of Gas analysis by gas chromatography, 288
 Stratosphere and troposphere: transport of material between them, J. L. Kroening, 862
 STROGONOV, B. P., Physiological basis of salt tolerance of plants, *book review* of, 142
 Strong, electromagnetic, and weak interactions, A. ZICHICHI (Ed.), *book review* by R. F. Peierls, 285
 Structure and properties of biomolecules and biological systems, The, J. DUCHESNE (Ed.), *book review* by E. D. Becker, 1437
 Structure of a ribonucleic acid, R. W. Holley *et al.*, 1462
 Study of creative scientists: comments on methodology, L. Datta *et al.*, 66
 Stumptail macaque as a laboratory subject, The (*letter*), I. S. Bernstein and N. B. Guilloud, 824
 Successive transformations of an established cell line by polyoma virus and SV40, G. J. Todaro and H. Green, 513
 Sulfur: role in genesis of petroleum, A. G. Douglas and B. J. Mair, 499
 Superconducting gallium antimonide, D. B. McWhan *et al.*, 1441
 Supply of telescopes (*letter*), E. G. Ebighausen, 1242
 Susano, C. D., *et al.*: Analytical chemistry in nuclear technology (*meeting report*), 523
 Suspended matter in deep ocean water, M. Ewing and E. M. Thorndike, 1291
 SUSSKIND, C. See CHODOROW, M.
 Sutton, H. E.: *book review* of Genetics for the clinician, 595
 Sweating: direct influence of skin temperature, W. van Beaumont and R. W. Bullard, 1465
 Synthesis of block oligonucleotides, R. E. Thach and P. Doty, 1310
 Systematic identification of organic compounds, The, R. L. SHRINER *et al.*, *book review* by J. De Vries, 139
- ## T
- Takata, C., *et al.*: Lens fiber differentiation and gamma crystallins: immunofluorescent study of Wolffian regeneration, 1299
 Takeshita, H., and M. Anchel: Production of oosporein and its leuco form by basidiomycete species, 152
 Tammushi, B.: Education in chemistry: United States and Japan (*meeting report*), 1163
 Tauber, E. S. See Rock, I., *et al.*
 TAUXE, W. N. See KNISELY, R. M., *et al.*
 Taxonomic biochemistry and serology, C. A. LEONE (Ed.), *book review* by C. A. Williams, Jr., 390
 TCHOUBAR, B., Les mécanisme réactionnels en chimie organique, *book review* of, 287
 Teachers as scholars (*letter*), F. T. Worrell, 358
 Teitelbaum, P., and J. Cytawa: Spreading depression and recovery from lateral hypothalamic damage, 61
 Tempora mutantur (*letter*), S. Ansbacher, 9
 Temps fossilifères, Les, vol. 1, H. TERMIER and G. TERMIER, *book review* by J. W. Wells, 1134
 Terman, F. E.: Herbert Hoover, engineer, 125
 TERMIER, G. See TERMIER, H.
 TERMIER, H., and G. TERMIER, Les temps fossilifères, vol. 1, *book review* of, 1134
 Terminiello, L. See Lesuk, A., *et al.*
 Terrestrial ratio of potassium to rubidium and the composition of earth's mantle, P. W. Gast, 858
 Testing: the phrenological approach (*letter*), R. E. Snow and W. F. Seibert, 109
 Tetrapyrrole biosynthesis and its regulation, J. LASCELLES, *book review* by S. Granick, 1567
 Textbook on analytical geometry, A. J. S. MAMELAK, *book review* by E. Halfar, 1137
 Thach, R. E., and P. Doty: Synthesis of block oligonucleotides, 1310
 Thack, W. T. See Pickwell, G. V., *et al.*
 Thayer, T. P.: *book review* of Les périodites serpentiniées en France, group 1, pt. 4, 1137
 Theoretical morphology of the coiled shell, D. M. Raup and A. Michelson, 1294
 Theory and practice in experimental bacteriology, G. G. MEYNELL and E. MEYNELL, *book review* by W. W. Umbreit, 1137
 Theory of crystal dislocations, A. H. COTRELL, *book review* by J. S. Koehler, 1023
 Thermal neutron activation: measurement of cross section for manganese-53, H. T. Millard, Jr., 503
 Thomas, D. W. See Blumer, M.
 Thompson, B. See Harteck, P., *et al.*
 Thompson, C. J. See Crawhall, J. C.
 Thompson, M. J. See Robbins, W. E., *et al.*
 THOMPSON, R. H. S., and E. J. KING (Eds.), Biochemical disorders in human disease, *book review* of, 853. See also BICKLEY, W. G.
 Thorndike, E. M. See Ewing, M.
 Thornton, C. S.: *book review* of The evolution of biology, 42
 Thymus: role in resistance to polyoma virus oncogenesis, L. W. Law, 164
 TIDMAN, D. A. See MONTGOMERY, D. C.
 Tiedemann, Heinz. See Kocher-Becker, U., *et al.*
 Tiedemann, Hildegard, See Kocher-Becker, U., *et al.*
 Tigges, J. See Klee, M. R., *et al.*
 Tikal, Guatemala, and emergent Maya civilization, W. R. Coe, 1401
 Time in stratigraphy, A. B. SHAW, *book review* by R. H. Flower, 1026
 Titani, K., and F. W. Putnam: Immunoglobulin structure: amino- and carboxyl-terminal peptides of type I Bence Jones proteins, 1304
 Tobie, J. S. See Pickwell, G. V., *et al.*
 Todaro, G. J., and H. Green: Successive transformations of an established cell line by polyoma virus and SV40, 513
 TOMKEIFF, S. I. See BATTEY, M. H.
 Tracer experiment: tracing biochemical reactions with radioisotopes, A. M. D. KAMEN, *book review* by A. M. Gold, 1277
 Trained porpoise released in the open sea, K. S. Norris, 1048
 Transformation of peasant societies (*meeting report*), A. R. Holmberg and H. F. Dobyns, 1062
 Transpiration and stomatal opening with changes in carbon dioxide content of the air, J. E. Pallas, Jr., 171
 Transplantation immunity of gestational origin in infant rats, R. E. Billingham *et al.*, 514
 Traver, J. H. See Lesuk, A., *et al.*
 Treasury of mathematics, The, H. O. MIDONICK (Ed.), *book review* by H. Eves, 1437
 Treiman, S. B.: *book review* of Nucleon structure, 494
 Trembley, F. J., *et al.*: Water (*letters*), 986
 Tricarboxylic acid cycle mutants in saccharomyces: comparison of independently derived mutants, M. Ogur *et al.*, 1590
 Tritiated water as a tool for ecological field studies, F. W. Woods and D. O'Neal, 148
 Tuckerman, J. See Pickwell, G. V., *et al.*
 Tumor and virus antigens of simian virus 40: differential inhibition of synthesis by cytosine arabinoside, F. Rapp *et al.*, 625
 Turner, F. R., and W. G. Whaley: Intercisternal elements of the Golgi apparatus, 1303
 TUTIN, T. G., *et al.* (Eds.), Flora Europaea, vol. 1, *book review* of, 1024
 Tyler, S. A. See Barghoorn, E. S.
 Tylotrich (hair) follicle: association with a slowly adapting tactile receptor in the cat, S. J. Mann and W. E. Straile, 1043
- ## U
- Ultee, A. J. See Hicks, E. M., Jr., *et al.*
 Ultrahigh vacuum, R. W. Roberts and L. E. St. Pierre, 1529
 Ultrasonics (*meeting report*), J. J. G. McCue, 309
 Umbreit, W. W.: *book review* of Theory and practice in experimental bacteriology, 1137
 Underwater visual discrimination by the California sea lion, R. J. Schusterman *et al.*, 1594
 Unusual environments and human behavior, N. M. BURNS *et al.* (Eds.), *book review* by H. G. Shelper, 855
 Uracil mustard: a potent inducer of lung tumors in mice, C. W. Abell *et al.*, 1443
 Urey, H. C.: Meteorites and the moon, 1262
 Urry, G.: *book review* of Boron, metallo-boron compounds, and boranes, 857

V

- VALENTINE, D. H. *See* TUTIN, T. G., *et al.*
 van Beaumont, W., and R. W. Bullard: Sweating: direct influence of skin temperature, 1465
 Vance, E. P.: *book review* of Mathematics: its contents, methods, and meaning, 722
 VANCE, R. W. *See* LEONDES, C. T.
 Vance, V. J., *et al.*: Brightness discrimination in the collared lizard, 758
 Van der Plank, J. E.: Dynamics of epidemics of plant disease, 120
 Van Dolah, R. W.: *book review* of Energetics of propellant chemistry, 1435
 van Overbeek, J. *See* Crane, J. C.
 van Wagtendonk, W. J.: *book review* of The biochemical approach to life, 1275
 Vasil, V., and A. C. Hildebrandt: Growth and tissue formation from single, isolated tobacco cells in microculture, 1454
 Verhoogen, J.: Paleomagnetism (*meeting report*), 1060
 Vesalius commemoration at Brussels (*meeting report*), W. F. H. M. Mommaerts and C. D. O'Malley, 1603
 Vick, J. A. *See* Polley, E. H., *et al.*
 Viglierchio, D. R., and P. K. Yu: Plant parasitic nematodes: a new mechanism for injury of hosts, 1301
 Viscosities of liquid sodium and potassium, from their melting points to their critical points, A. V. Grosse, 1438
 Vitamin K-induced prothrombin formation: correction, R. E. Olson, 66
 Vocal mimicry in *Tursiops*: ability to match numbers and durations of human vocal bursts, J. C. Lilly, 300
 Vogel, H. J. *See* Bryson, V.
 Volpe, E. P.: *book review* of Dictionary of herpetology, 43
 von Krzywoblocki, M. Z., and E. L. Goldwasser: Fashion and competition in science (*letters*), 237
 VON WEIZSÄCKER, C. F.: The relevance of science: creation and cosmogony, *book review* of, 1434
 Vurek, G. G. *See* Prager, D. J., *et al.*

W

- WADSWORTH, F. H. *See* LITTLE, E. L., JR.
 WAGLEY, C. (Ed.), Social science research on Latin America, *book review* of, 1564
 Wainerdi, R. E. *See* Guinn, V. P.
 Waisman, H. A., and H. F. Harlow: Experimental phenylketonuria in infant monkeys, 685
 Waksman, S. A.: Antibiotics: the duplication problem (*letter*), 1396
 Waldemar experience, The (*letter*), L. Gross, 9
 Wallace, G. J.: *book review* of Waterfowl tomorrow, 498
 Walsh, H. T. *See* Mathewes, D. A., Jr., *et al.*
 Walsh, J. (*News and Comment*): academic degrees, 844; desalination, 1117; education message, 382; federal aid for education, 30; food processing, 132; R&D budget, 485; school aid bill, 717; solar boat, 1559; Weston E. Vivian, 1016; Veterans' medicine, 1426; weather modification, 274
 Walter, L. S.: Coesite discovered in tektites, 1029
 WALTERS, S. M. *See* TUTIN, T. G., *et al.*
 WALTON, H. F.: Principles and methods of chemical analysis, *book review* of, 1433
 Walton, W. C.: *book review* of Advances in hydrosience, 854
 Water (*letters*), F. J. Trembley *et al.*, 986

- Water for North America (*editorial*), P. H. Abelson, 113
 Water molecule in biological systems, The (*meeting report*), J. F. Saunders, 179
 Waterfowl tomorrow, J. P. LINDUSKA (Ed.), *book review* by G. J. Wallace, 498
 Waterman, A. T.: The changing environment of science, 13
 Waters, L. *See* Dure, L.
 Weaver, C. E.: Potassium content of illite, 603
 WEBB, D. A. *See* TUTIN, T. G., *et al.*
 Webb, W. W. *See* Hayes, C. E.
 Weinberg, J. W. *See* Bratton, C. B., *et al.*
 Weisburger, E. K. *See* Abell, C. W., *et al.*
 Weisburger, J. H. *See* Abell, C. W., *et al.*
 WEISSBERGER, A. (Ed.), Heterocyclic compounds with three- and four-membered rings, pts. 1 and 2, *book review* of, 388
 Weisskopf, V. F. *See* Yuan, L. C. L.
 Weissmann, G. *See* Hirschhorn, R., *et al.*
 Weist, W. G.: *book review* of Steroid drugs, vol. 2, 596
 Wells, J. W.: *book review* of Les temps fossilifères, vol. 1, 1134
 Wendt, A.: *book review* of Elementary concepts of modern mathematics, 1565
 Wentorf, R. H., Jr.: Boron: another form, 49
 WERTHEIM, G. K., Mössbauer effect: principles and applications, *book review* of, 1139
 Wetherell, D. F. *See* Halperin, W.
 Whalen, R. E. *See* Feder, H. H.
 Whaley, W. G. *See* Turner, F. R.
 Wheeler, B. D. *See* Chave, K. E.
 Whistler, R. L.: *book review* of An introduction to the chemistry of carbohydrates, 284
 WHITE, R. G., Handbook of industrial analysis, *book review* of, 1277
 Whitford, A. E. *See* Howard, R., *et al.*
 Whitson, G. L. *See* Padilla, G. M., *et al.*
 Whittaker, R. H.: Dominance and diversity in land plant communities, 250
 Who proved Galileo right? (*letters*), C. B. Stephenson and D. F. Siemens, Jr., 8
 Why equality? (*letters*), A. C. Powell and D. J. Ingle, 6
 Wick, G. C. *See* Yuan, L. C. L.
 Wiesel, T. N. *See* Pickwell, G. V., *et al.*
 Wiggins, I. L.: *book review* of Flora Europaea, vol. 1, 1024
 Wigley, R. L.: *book review* of Biology of the Antarctic seas, 284
 Wikstrom, S. A. *See* Oró, J., *et al.*
 Wilcox, A. B.: *book reviews* of Matrix algebra for electrical engineers; Matrices: their meaning and manipulation, 285
 Wildey, R. L.: Hot shadows of Jupiter, 1035
 Wildlife biology, R. F. DASMAN, *book review* by P. W. Frank, 496
 Wilimovsky, N. J.: *book review* of Handbuch der binnenscherei mitteleuropas, vol. 2A, 852
 Wilkes, A. *See* Lee, P. E.
 WILKES, D. M. *See* SEABORG, G.
 Wilkinson, M., *See* Dye, D. L.
 Williams, C. A., Jr.: *book review* of Taxonomic biochemistry and serology, 390
 Williams, D. E.: Crystal packing of molecules, 605
 Williams, I. R.: *book reviews* of Nuclear radiation detection; Nuclear radiation detectors, 391
 Wilmarth, W. K.: *book review* of The chemistry of complex cyanides, 1025
 Wilt, F. H.: Erythropoiesis in the chick embryo: the role of endoderm, 1588

- Winchell, H.: *book review* of Aspects of theoretical mineralogy in the U.S.S.R., 498
 Winkler, E. M.: Air pollution and the decay of monuments (*letter*), 459
 Winston, H. D. *See* Meier, G. W., *et al.*
 Wirth, M.: *book review* of Our plant resources, 391
 WOLF, G.: Isotopes in biology, *book review* of, 1277
 Wolfbein, S. L.: *book review* of Government and manpower, 851
 Wolff, G. L.: Body composition and coat color correlation in different phenotypes of "viable yellow" mice, 1145
 Woffle, D. (*editorials*): An adequate rate of growth, 1399; The federal science budget, 561; Fields of scholarship, 1091; Geographic distribution of R&D funds, 361; School laboratory supplies, 827
 WOLLIN, G. *See* ERICSON, D. B.
 Wolman, L. M. G. *See* Payne, D. A., Jr., *et al.*
 Wood and cellulose science, A. J. STAMM, *book review* by E. G. Locke, 595
 Woods, F. W., and D. O'Neal: Tritiated water as a tool for ecological field studies, 148
 Wooster, H.: Productivity measure disputed (*letter*), 1524
 Worrell, F. T.: Teachers as scholars (*letter*), 358
 Wright, F. W.: *book review* of The physics and astronomy of meteors, comets, and meteorites, 1136
 WUNSCH, H. H. (Ed.), Handbuch der binnenscherei mitteleuropas, vol. 2A, *book review* of, 852
 Wynne-Edwards, V. C.: Self-regulating systems in populations of animals, 1543

X

- X chromosome DNA replication: developmental shift from synchrony to asynchrony, R. B. Nicklas and R. A. Jaqua, 1041

Y

- Yagi, Y., *et al.*: Antibodies against the component polypeptide chains of bovine insulin, 617
 Yamada, T. *See* Takata, C., *et al.*
 Yamamoto, R. T. *See* Robbins, W. E., *et al.*
 Yashon, D. *See* Jane, J. A., *et al.*
 Yu, P. K. *See* Viglierchio, D. R.
 Yuan, L. C. L., *et al.*: Nature of matter: purposes of high energy physics, 1548
 YUWILER, A. *See* EIDUSON, S., *et al.*

Z

- Zamernard, J. *See* Rose, F. L., *et al.*
 Zamir, A. *See* Holley, R. W., *et al.*
 ZAZARITSKII, A. N., and V. S. SOBOLEV: The physicochemical principles of igneous petrology, *book review* of, 1566
 Zetterström, B. E. M. *See* Dahlström, A. B.
 ZICHICHI, A. (Ed.), Strong, electromagnetic, and weak interactions, *book review* of, 285
 Zietz, I. *See* Ostenso, N. A., *et al.*
 ZINN, W. H. *et al.*: Nuclear power, U.S.A., *book review* of, 721
 Zirin, H. *See* Howard, R., *et al.*
 ZIRKLE, C. *See* SIRKS, M. J.
 Zubin, J.: Dermooptical perception: a cautionary report (*letter*), 985
 Zuckerman, J. J.: English ivy (*letter*), 459
 Zyskind, J. W., *et al.*: Staphylococcal substance from a species of *Pseudomonas*, 1458