

FOR
RESEARCH



AMINO ACIDS

DL-homoserine
L-hydroxyproline
D-isoleucine
DL-isoleucine
L-isoleucine
DL-lanthionine
D-leucine
DL-leucine
L-leucine
DL-leucyl-glycine
L-leucyl-glycine
DL-leucyl-glycyl-glycine
L-leucyl-glycyl-glycine
D-leucyl-L-tyrosine
L-leucyl-L-tyrosine
DL-lysine HCl
L-lysine HCl
D-methionine
DL-methionine
DL-methionine Sulfone
L-methionine
DL-norleucine
DL-norvaline
DL-ornithine HCl
L-ornithine diHCl
D-phenylalanine
DL-phenylalanine
L-phenylalanine
L-proline
DL-proline
sarcosine (free base)
D-serine
DL-serine
L-serine
taurine
D-threonine
DL-threonine
L-threonine
DL-thyroxine
D-tryptophane
DL-tryptophane

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Miscellaneous Publications

Fundamental Research in the College of Engineering and Science. Pittsburgh, Pa.: Carnegie Institute of Technology, 1953. 100 pp.

Hydromedusae. Great Barrier Reef Expedition 1928-29: Scientific Reports, Vol. VI, No. 4. P. L. Kramp. London, S.W.7, Eng.: British Museum (Natural History), 1953. 66 pp. Illus. 1£.

A Multitube Differential Pressure Manometer for Measuring the Average Flow of Fluids in Closed Ducts. Bull. No. 410. G. B. Clark. 30 pp. Illus. 30¢. *The Dielectric Constant and Dissipation Factor of Soda-Potassia-Silica Glasses at Frequencies of 1 to 300 Kilocycles at Room Temperatures*. Bull. No. 411. G. F. Stockdale. 27 pp. Illus. 30¢. *Transport of Momentum, Mass, and Heat in Turbulent Jets*. Bull. No. 413. L. G. Alexander, Thomas Baron, and E. W. Comings. 88 pp. Illus. 75¢. Urbana, Ill.: Engineering Experiment Station, University of Illinois, 1953.

Neutron Optics. D. J. Hughes. New York: Interscience, 1954. 136 pp. Illus. \$2.50.

A New Worm Snake from Colombia, Genus Anomalepis. Fieldiana: Zoology, Vol. 34, No. 17. Hymen Marx. 2 pp. 15¢. *The Elapid Genus of Snakes, Walterinnesia*. Vol. 34, No. 16. Hymen Marx. 8 pp. Illus. 20¢. *Hemprich's Coral Snake, Micrurus hemprichi*. Vol. 34, No. 13. Karl P. Schmidt. 6 pp. Illus. 15¢. *The Amazonian Coral Snake, Micrurus spixi*. Vol. 34, No. 14. Karl P. Schmidt. 10 pp. Illus. 25¢. Chicago, Ill.: Chicago Natural History Museum, 1953.

Pasteur's and Tyndall's Study of Spontaneous Generation. Case 7, Harvard Case Histories in Experimental Science. James Bryant Conant, Ed. Cambridge, Mass.: Harvard Univ. Press, 1953. 61 pp. Illus.

Pedology of the Deniboota Irrigation District, New South Wales. Soil Publ. No. 1. E. J. Johnston. Melbourne, Australia: Commonwealth Scientific and Industrial Research Organization, 1953. 92 pp. Illus.

Plant Proteins in Child Feeding. Medical Research Council, Special Report Series No. 279. R. F. A. Dean. London, Eng.: Her Majesty's Stationery Office, 1953. 163 pp. Illus. \$2.25.

Problem Book in the Theory of Functions, Vol. I. Problems in the elementary theory of functions. Konrad Knopp; trans. by Lipman Bers. 126 pp. Paper: \$1.25; cloth: \$2.50. *Problem Book in the Theory of Functions*, Vol. II. Problems in the advanced theory of functions. Konrad Knopp; Trans. by Frederick Bagemihl. New York: Dover, 1953. 138 pp. Paper: \$1.25; cloth: \$2.50.

Proceedings Volume of the Geological Society of America for 1952. New York, N. Y.: Geological Society of America, 1953. 211 pp. Illus.

The Resources of Leonardo da Vinci. Papers delivered at Southern Illinois University, Nov. 12-15, 1952. George K. Plochmann, Ed. Carbondale, Ill.: Southern Illinois University, 1953. 39 pp. \$1.00.

Thirty-Sixth Annual Report of the National Research Council of Canada, 1952-53. No. 3033. Ottawa, Canada: N. R. C. of Canada, 1953. 54 pp.

Toward a Regional Program of Psychological Research and Training in the South. Atlanta, Ga.: Southern Regional Education Board, 1953. 97 pp.

Triassic Life of the Connecticut Valley, Bull. No. 81. 2nd ed. Revised by Richard Swann Lull. Hartford, Conn.: State Geological and Natural History Survey, 1953. 336 pp. Illus. \$2.00.

The authors have in most cases attempted to predict future developments and to suggest specific fields in which work is needed. The restricted size of the papers is compensated by extensive bibliographies. The paper of Desreux and Fredericq and some of the discussions are in French, the rest of the book being in English. The book is well printed and bound, on good paper, and contains no more typographical errors than might be expected. It should be of considerable interest to students majoring in biochemistry and to anyone concerned with the various aspects of protein structure.

MARK H. ADAMS

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Books Reviewed in THE SCIENTIFIC MONTHLY

January

Galileo Galilei. *Dialogue on the Great World Systems.* In the translation of T. Salusbury. Revised and annotated by Giorgio de Santillana. Chicago: Univ. Chicago Press, 1953. 506 pp. Illus. \$12.50.

Reviewed by Raymond J. Seeger.

Galileo Galilei. *Dialogue Concerning the Two Chief World Systems—Ptolemaic & Copernican.* Trans. by Stillman Drake. Berkeley: Univ. California Press, 1953. 496 pp. \$10.00.

Reviewed by Michael B. Shimkin.

Fundamentals of Biology. W. J. Harbaugh and A. L. Goodrich, Eds. New York: Blakiston, 1953. 611 pp. Illus. \$6.00.

Reviewed by Edward S. Castle.

Franz Boas: The Science of Man in the Making. Melville J. Herskovits. New York: Scribner, 1953. 131 pp. \$2.50.

Reviewed by Robert H. Lowie.

Squaring the Circle and Other Monographs. E. W. Hobson *et al.* New York: Chelsea, 1953. 361 pp. Illus. \$3.25.

Reviewed by N. T. Gridgeman.

The Revolution in Physics. Louis de Broglie. Trans. by Ralph W. Niemeyer. New York: Noonday Press, 1953. 310 pp. \$4.50.

Reviewed by G. Gamow.

Studies in Econometric Method. Wm. C. Hood and Tjal-ling C. Koopmans, Eds. New York: Wiley, 1953. 323 pp. Illus. \$5.50.

Reviewed by J. E. Morton.

Plough and Pasture: The Early History of Farming. E. Cecil Curwen and Gudmund Hatt. New York: Schuman, 1953. 329 pp. Illus. + plates. \$5.00.

Reviewed by E. Adamson Hoebel.

Algal Culture from Laboratory to Pilot Plant. John S. Burlew, Ed. Washington, D.C.: Carnegie Institution, 1953. 357 pp. Illus. \$1.25, paperbound.

Reviewed by Lewis Hanford Tiffany.

American Constitutional Custom. Burleigh C. Rodick. New York: Philosophical Library, 1953. 244 pp. \$4.75.

Reviewed by Philip B. Perlman.

Prehistoric Settlement Patterns in the Virú Valley, Peru. Gordon R. Willey. Washington, D.C.: Government Printing Office, 1953. 453 pp. Illus. + maps and plates. \$4.00.

Reviewed by Julian H. Steward.

Life on the Earth. Rose Wyler and Gerald Ames. New York: Schuman, 1953. 143 pp. Illus. \$2.50.

Reviewed by John Tyler Bonner.

Climate, Vegetation and Man. Leonard Hadlow. New York: Philosophical Library, 1953. 288 pp. Illus. \$4.75.

Reviewed by C. W. Thornthwaite.

Brown Coal: Its Mining and Utilization. P. L. Henderson, Ed. Melbourne, Australia: Melbourne Univ. Press; New York: Cambridge Univ. Press, 1953. 351 pp. Illus. \$7.50.

Reviewed by Arno C. Fieldner.

The Study of Human Nature. David Lindsay Watson. Yellow Springs, Ohio: Antioch Press, 1953. 262 pp. \$3.50.

Reviewed by John Macdonald.

Experimental Studies in Psychiatric Art. E. Cunningham Dax. Philadelphia: Lippincott; London: Faber and Faber, 1953. 100 pp. Illus. \$5.00.

Reviewed by Otto Billig.

Twenty Years of Psychoanalysis. Franz Alexander and Helen Ross, Eds. New York: Norton, 1953. 309 pp. \$3.75.

Reviewed by Philip R. Lehrman.

February

Quackery in the Public Schools. Albert Lynd. Boston: Atlantic-Little, Brown, 1953. 282 pp. \$3.50.

Reviewed by George D. Stoddard.

The Triumph of the Alphabet. Alfred C. Moorhouse. New York: Schuman, 1953. 223 pp. Illus. + plates. \$4.00.

Reviewed by I. J. Gelb.

Railroad Engineering, Vol. 1. William W. Hay. New York: Wiley; London: Chapman & Hall, 1953. 483 pp. Illus. + charts. \$7.50.

Reviewed by Charles F. Peck, Jr.

A Survey of Modern Algebra. Rev. ed. Garrett Birkhoff and Saunders MacLane. New York: Macmillan, 1953. 472 pp. Illus. \$6.50.

Reviewed by L. M. Graves.

A Refresher Course in Mathematics. F. J. Camm. New York: Emerson, 1953. 240 pp. Illus. \$2.95.

Reviewed by Helen G. Russell.

Infinity. Lillian R. Lieber. New York: Rinehart, 1953. 359 pp. \$5.00.

Reviewed by S. B. Myers.

The Philosophy of Nature. Andrew G. Van Melsen. Pittsburgh, Pa.: Duquesne Univ. Press, 1953. 253 pp. \$4.50, cloth; \$3.75, paper.

Reviewed by I. Bernard Cohen.

Science in Synthesis. William H. Kane *et al.* River Forest, Ill.: Dominican House of Studies, 1953. 289 pp. \$3.50.

Reviewed by I. Bernard Cohen.

In Spite of. John Cowper Powys. New York: Philosophical Library, 1953. 312 pp. \$5.00.

Reviewed by May Brodbeck.

The Interpersonal Theory of Psychiatry. Harry Stack Sullivan. New York: Norton, 1953. 393 pp. \$5.00.

Reviewed by John R. Reid.

Groups in Harmony and Tension. Muzafer Sherif and Carolyn W. Sherif. New York: Harper, 1953. 316 pp. Illus. + plates. \$3.50.

Reviewed by J. R. Kantor.

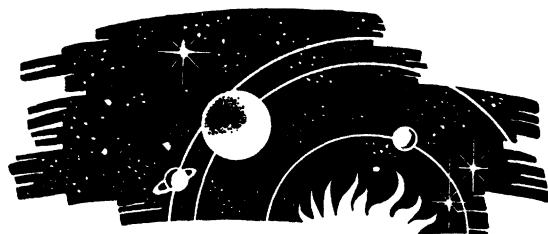
Nationalism and Social Communication. Karl W. Deutsch. Boston: Technology Press, MIT; New York: Wiley, 1953. 292 pp. Illus. \$5.00.

Reviewed by Halford L. Hoskins.

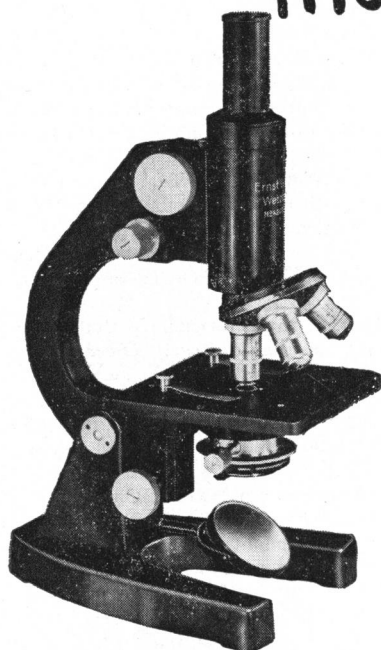
- Culture.** A. L. Kroeber and Clyde Kluckhohn. Cambridge, Mass.: Harvard Univ. Press, 1952. 223 pp. \$5.25.
Reviewed by Leslie A. White.
- Culture Change. An Analysis and Bibliography of Anthropological Sources to 1952.** Felix M. Keesing. Stanford: Stanford Univ. Press; London: Oxford Univ. Press, 1953. 242 pp. \$4.00.
Reviewed by Georg K. Neumann.
- Volcanoes as Landscape Forms.** Rev. ed. C. A. Cotton. New York: Wiley, 1952. 416 pp. Illus. \$9.00.
Reviewed by James Gilluly.
- America's Ancient Civilizations.** A. Hyatt Verrill and Ruth Verrill. New York: Putnam, 1953. 334 pp. Illus. + plates. \$5.00.
Reviewed by James B. Griffin.
- Fossil Plants of the Florissant Beds, Colorado.** Harry D. MacGinitie. Washington, D.C.: Carnegie Institution, 1953. 198 pp. Illus. + plates. \$5.25, paper; \$5.75, cloth.
Reviewed by C. A. Arnold.
- Evolution in Action.** Julian Huxley. New York: Harper, 1953. 182 pp. Illus. \$2.75.
Reviewed by Bentley Glass.
- Elements of Heat Treatment.** G. W. Enos and W. E. Fontaine. New York: Wiley, 1953. 286 pp. Illus. \$5.00.
Reviewed by George G. Lamb.
- The Whooping Crane.** Robert Porter Allen. New York: National Audubon Society, 1952. 246 pp. Illus. \$3.00.
Reviewed by Albert Wolfson.
- Parental Care and Its Evolution in Birds.** S. Charles Kendeigh. Urbana: Univ. of Illinois Press, 1952. 356 pp. Illus. \$4.00, paper; \$5.00 cloth.
Reviewed by Albert Wolfson.
- Great Men of Science.** Philipp Lenard. New York: British Book Centre, 1950. 389 pp. + plates. \$3.25.
Reviewed by Garrett Hardin.
- Modern Nationalities.** Florian Znaniecki. Urbana: Univ. of Illinois Press, 1952. 196 pp. \$3.95.
Reviewed by Edward A. Kennard.
- Hebrew Marriage.** David R. Mace. New York: Philosophical Library, 1953. 271 pp. \$6.00.
Reviewed by Sol Tax.
- The Mammals of Minnesota.** Harvey L. Gunderson and James R. Beer. Minneapolis: Univ. Minnesota Press, 1953. 190 pp. \$3.50.
Reviewed by Paul L. Errington.
- The Natural History of Infectious Disease.** 2nd ed. Macfarlane Burnet. New York: Cambridge Univ. Press, 1953. 356 pp. Illus. \$4.50.
Reviewed by Gaylord W. Anderson.
- Plant Diseases, the Yearbook of Agriculture, 1953.** Washington, D.C.: U.S. Department of Agriculture, 1953. 940 pp. Illus. + color plates. \$2.50.
Reviewed by A. J. Riker.
- Sex and the Nature of Things.** N. J. Berrill. New York: Dodd, Mead, 1953. 256 pp. Illus. \$3.50.
Reviewed by Jane Oppenheimer.
- How to Know the Spiders.** B. J. Kaston and Elizabeth Kaston. Dubuque, Iowa: Wm. C. Brown, 1953. 220 pp. Illus. \$2.25, paper; \$3.00, cloth.
Reviewed by A. M. Chickering.
- Reptiles and Amphibians.** Herbert S. Zim and Hobart M. Smith. New York: Simon and Schuster, 1953. 157 pp. Illus. \$1.50.
Reviewed by Herbert L. Stahnke.
- Theoretical Anthropology.** David Bidney. New York: Columbia Univ. Press, 1953. 506 pp. \$8.50.
Reviewed by Daryll Forde.
- The Tools of Social Science.** John Madge. London: Longmans Green, 1953. 308 pp. 25s.
Reviewed by Mason T. Record.
- Letters on Art and Literature.** François Mauriac. New York: Philosophical Library, 1953. 120 pp. \$3.00.
Reviewed by William J. McDonald.
- African Education.** The Nuffield Foundation and the Colonial Office. Oxford, Eng.: University Press, 1953. 187 pp. \$1.90.
Reviewed by Charles S. Johnson.
- Science in Progress.** George A. Baitzell, Ed. New Haven: Yale Univ. Press, 1953. 285 pp. Illus. \$6.00.
Reviewed by Joel H. Hildebrand.
- Research Operations in Industry.** David B. Hertz, Ed. New York: King's Crown Press, Columbia Univ., 1953. 453 pp. \$8.50.
Reviewed by Jay N. Edmondson.
- New Screen Techniques.** Martin Quigley, Jr., Ed. New York: Quigley Pub., 1953. 208 pp. Illus. \$4.50.
Reviewed by C. V. Starrett.
- A Bibliography on Meteorites.** Harrison Brown, Ed. Chicago: Univ. Chicago Press, 1953. 686 pp. \$10.00.
Reviewed by John A. Russell.
- Reviews of Research on Arid Zone Hydrology.** Paris: UNESCO; New York: Columbia Univ. Press, 1953. 212 pp. + maps. \$5.00.
Reviewed by Walter T. Wilson.
- The Limits of the Earth.** Fairfield Osborn. Boston: Little, Brown, 1953. 238 pp. \$3.50.
Reviewed by Roger Adams.

March

- Atomic Medicine.** 2nd ed. Charles F. Behrens, Ed. Baltimore: Williams and Wilkins, 1953. 632 pp. Illus. \$11.00.
Reviewed by Charles L. Dunham.

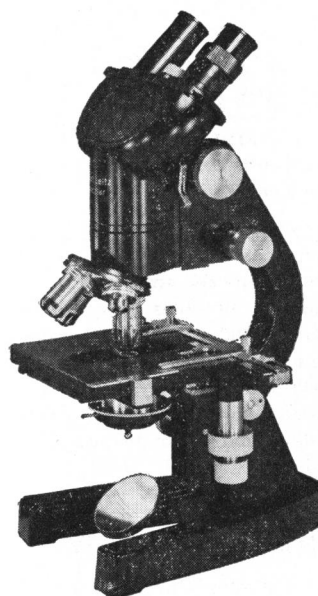


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Meetings & Conferences

April

- 13-14. Conf. on Applications of Computing Machines, Cleveland, Ohio. (F. C. Leone, 10900 Euclid Ave., Cleveland 6.)
- 16-17. Histochemical Soc., Atlantic City, N. J. (R. D. Lillie, National Institutes of Health, Bethesda, Md.)
- 18-22. American Assoc. for the Advancement of Science, Southwestern Division, Lubbock, Tex. (F. E. E. Germann, Dept. of Chemistry, Univ. of Colorado, Boulder.)
20. Conf. on Instrumentation in Water, Sewage, and Industrial Waste Treatment, New York, N.Y. (Brother J. McCabe, Civil Engineering Dept., Manhattan College, New York 71.)
- 23-24. Montana Acad. of Sciences, Missoula, Mont. (L. H. Harvey, Dept. of Botany, Montana State Univ., Missoula.)
- 26-28. Metal Powder Show, Chicago, Ill. (Metal Powder Assoc., 420 Lexington Ave., New York 17, N.Y.)
- 26-28. National Acad. of Sciences, annual, Washington, D.C. (Office of the Home Secretary, National Academy of Sciences, 2101 Constitution Ave., Washington, D.C.)
- 26-30. American Soc. of Tool Engineers Industrial Exposition, 9th biennial, Philadelphia, Pa. (H. E. Conrad, 10700 Puritan, Detroit 21, Mich.)
- 26-1. American Acad. of Neurology, annual, Washington, D.C. (F. M. Forster, Georgetown Univ., Washington, D.C.)
- 26-2. Cong. of the International College of Surgeons, 9th biennial, São Paulo, Brazil. (Secretariat, International College of Surgeons, 1516 Lake Shore Dr., Chicago 10, Ill.)
- 27-30. International Health Cong., Scarborough, Eng. (P. A. Wells, 90 Buckingham Palace Rd., London, S.W. 1, Eng.)
- 29-30. Eastern States Health Education Conf., New York, N.Y. (I. Galdston, 2 E. 103 St., New York 29.)
- 29-30. Symposium of Recent Advances in the Study of Venereal Diseases, 6th annual, Washington, D. C. (J. K. Shafer, Public Health Service Division of Venereal Diseases, Washington 25, D. C.)
- 29-1. American Mathematical Soc., Chicago, Ill. (J. W. T. Youngs, Univ. of Indiana, Bloomington.)
- 29-1. American Physical Soc., Washington, D. C. (K. K. Darrow, Columbia Univ., New York 27, N. Y.)
- 29-1. Kansas Acad. of Science, annual, Hays, Kansas. (C. T. Rogerson, Dept. of Botany, Kansas State College, Manhattan.)
- 29-1. Midwestern Psychological Assoc., Columbus, Ohio. (L. J. Cronbach, 1007 S. Wright, Champaign, Ill.)
- 30-1. South Dakota Acad. of Science, annual, Rapid City, S. Dak. (A. L. Haines, Chemistry Dept., Univ. of South Dakota, Vermillion.)

May

- 2-6. Electrochemical Soc., spring, Chicago, Ill. (H. B. Linford, Columbia Univ., New York 27.)
- 2-7. Soc. of American Bacteriologists, annual, Pittsburgh, Pa. (F. S. Cheever, P.O. Box 1912, Pittsburgh 30.)
- 3-5. American Geophysical Union, 35th annual, Washington, D.C. (J. Adkins, Office of Naval Research, Washington 25.)
- 3-6. Air Pollution Control Assoc., Chattanooga, Tenn. (H. C. Ballman, 4400 5 Ave., Pittsburgh 13, Pa.)

(See the March 19th issue for summer meeting lists.)