of criticism. Some biologists may not regard the omitted, long chapter on rate of growth as all useless. Bonner, in his introduction to the famous chapter on transformations, repeats Medawar in calling the method "analytically unwieldy"; he indicates this to be the reason for so few applications on the transformation method and also that allometry is more practical. Nevertheless, the allometric and transformed coordinates are parts of a generalized method. Only the lack of adequate growth data delays use of the inclusive general method.

I believe that Thompson would have preferred to be read in the original and to have his mistakes known than to be abridged and purged. He would have held that the universities must maintain the breadth of scholarship exhibited in his own work rather than join in the modern rush and half-done technics. On Growth and Form, which has been praised as a classic, is now passing through the ordeal of criticism and has not yet reached the period of evaluation. It may be too early to distill the rare essence from Thompson's errors and ours!

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## New Books

## Mathematics, Physical Sciences, and Engineering

Algebraic Logic. Paul R. Halmos. Chelsea, New York, 1962. 271 pp.

Aircraft Stability and Control. A. W. Babister. Pergamon, New York, 1962. 700 pp. Illus. \$15.

Agglomeration. William A. Knepper, Ed. Interscience, New York, 1962. 1124 pp. Illus. \$25.

**Analytical Chemistry.** vol. 2. Carl E. Crouthamel, Ed. Pergamon, New York, 1961. 407 pp. Illus. \$15.

Applied Clay Mineralogy. Ralph E. Grim. McGraw-Hill, New York, 1962. 429 pp. Illus. \$12.50.

Astronomical Dictionary. In six languages: English, Russian, German, French, Italian, and Czech. J. Kleçzek. Academic Press, New York, 1962. 972 pp. \$25.

Capsule Calculus. I. Ritow. Doubleday, New York, 1962. 190 pp. Paper, \$1.45.

The Chemistry and Technology of Leather. vol. 3, Process Control of Leather Quality. Fred O'Flaherty, William T. Roddy, and Robert M. Lollar, Eds. Reinhold, New York, 1962. 527 pp. Illus. \$15.

Coding Theorems of Information Theory. J. Wolfowitz. Springer, Berlin; Prentice-Hall, Englewood Cliffs, N.J., 1961. 134 pp. \$9.35. A Course of Mathematics for Engineers and Scientists. vols. 1 and 2. Charles Plumpton and Brian H. Chirgwin. Pergamon, New York, 1961. vol. 1, 333 pp.; vol. 2, 389 pp. Illus. \$6.50.

Current Research in Astronautical Sciences. L. Broglio, Ed. Pergamon, New York, 1962. 556 pp. Illus. \$12.50. Proceedings (18 papers in English, French, or Italian) of the Rome seminar on astronautics, sponsored by the North Atlantic Treaty Organization, May 1959.

Design Guide to Orbital Flight. Jorgen Jensen, George Townsend, Jyri Kork, and Donald Kraft. McGraw-Hill, New York, 1962. 939 pp. Illus. \$17.50.

Direct Analysis of Diffraction by Matter. R. Hosemann and S. N. Bagchi. North-Holland, Amsterdam; Interscience, New York, 1962. 755 pp. Illus. \$21.75.

Electrical Breakdown of Insulating Liquids. J. A. Kok. Interscience, New York, 1961. 143 pp. Illus. \$6.

Electrochemistry of Fused Salts. I. K. Delimarskii and B. F. Markov. Sigma Press, Washington, D.C., 1962. 353 pp. Illus. \$12.50.

Electromagnetic Waveguides and Cavities. Georg Goubau. Pergamon, New York, 1961. 673 pp. Illus. \$13.50.

Elements of the Topology of Plane Sets of Points. M. H. A. Newman. Cambridge Univ. Press, New York, 1961 (ed. 2. © 1951). 221 pp. Illus. Paper, \$2.95 (reprint).

An Engineering Theory of Plasticity. E. P. Unksov. Butterworth, Washington, D.C., 1961. 287 pp. Illus. \$13. Translated by the Production Engineering Research Association of Great Britain; original volume was published in Moscow, 1959.

Geology and Engineering. Robert F. Leggett. McGraw-Hill, New York, ed. 2, 1962. 906 pp. Illus. \$12.50.

Glass Reinforced Plastics. Phillip Morgan, Ed. Interscience, New York, ed. 3, 1961. 356 pp. Illus. \$9.50.

Guide to the Study of Rocks. L. E. Spock. Harper, New York, ed. 2, 1962. 314 pp. Illus. \$8.75.

Impact Testing of Materials. W. Späth. Revised and adapted by M. E. Rosner. Gordon and Breach, New York, 1962. 213 pp. Illus. \$6. A revised edition of Der Schlagversuch in der Werkstoffprüfung, Stuttgart, 1957.

Instrumental Optics. G. A. Boutry. Translated by R. Auerbach. Interscience, New York, 1962. 560 pp. Illus. \$27.50. Translated from Optique Instrumentale, 1946, and text revised by the translator.

Introduction to College Geology. Chauncey D. Holmes. Macmillan, New York, ed. 2, 1962. 503 pp. Illus. \$7.

Jet Engine Manual. E. Mangham and A. Peace. Philosophical Library, New York, ed. 3, 1961. 159 pp. Illus. \$3.75.

Laboratory Manual of Organic Chemistry. Experiments on a semimacro scale. George H. Coleman, Stanley Wawzonek, and Robert E. Buckles. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1962. 231 pp. Illus. \$6.

Linear Signal-Flow Graphs and Applications. Y. Chow and Etienne Cassignol. Wiley, New York, 1962. 155 pp. \$6.95.

Mathematical Discovery on Understanding, Learning, and Teaching Problem

**Solving**. vol. 1. George Polya. Wiley, New York, 1962. 231 pp. \$4.75.

Mathematics Association of America Studies in Mathematics. vol. 1, Studies in Modern Analysis. R. C. Buck, Ed. Prentice-Hall, Englewood Cliffs, N.J., 1962. 182 pp. \$4.

Mathematics for Physicists and Engineers. Organisation for Economic Cooperation and Development, Paris, 1961. 223 pp.

Mellor's Comprehensive Treatise on Inorganic and Theoretical Chemistry. vol. 2, suppl. 2, pt. 1, *The Alkali Metals*. Wiley, New York, 1961. 1487 pp. Illus. \$45 (until 31 May 1962); \$55.

A New Dictionary of Chemistry. L. Mackenzie Miall, Ed. Interscience, New York, ed. 3, 1961. 604 pp. Illus. \$13.75.

Particle Accelerators. M. Stanley Livingston and John Blewett. McGraw-Hill, New York, 1962. 682 pp. Illus, \$17.50.

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Polycarbonates. William F. Christopher and Daniel W. Fox. Reinhold, New York, 1962. 191 pp. Illus. \$7.95.

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**Properties of Solids.** George G. Koerber. Prentice-Hall, Englewood Cliffs, N.J., 1962. 295 pp. Illus. Trade ed., \$13; text ed., \$9.75.

Selected Topics in the Classical Theory of Functions of a Complex Variable. M. Heins. Holt, Rinehart, and Winston, New York, 1962. 160 pp. \$3.50.

Statistical Mechanics. Norman Davidson. McGraw-Hill, New York, 1962. 549 pp. Illus. \$14.50.

Studies in Statistical Mechanics. vol. 1. J. De Boer and G. E. Uhlenbeck, Eds. North-Holland, Amsterdam, 1962 (order from Interscience, New York). 360 pp. \$13.75.

A Textbook of Quantitative Inorganic Analysis. A. I. Vogel. Wiley, New York, ed. 3, 1962. 1291 pp. Illus. \$12.

Theory of Elastic Thin Shells. A. L. Gol'denvizer. Translation from the Russian edition by G. Herrmann. Published for the American Soc. of Mechanical Engineers by Pergamon, New York, 1961. 679 pp. \$15.

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Transonic Wind Tunnel Testing. B. H.

Transonic Wind Tunnel Testing. B. H. Goethert. Pergamon, New York, 1962. 397 pp. Illus. \$17.50.

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