

pathology as applied to plant tissue culture. There is a generous mixture of contributions from those primarily interested in the technique or refinements of media to those who are utilizing the technique as a tool for investigation of biological problems. The articles *in toto* indicate that tissue culture is rapidly emerging from its preliminary, general survey stage.

It is unfortunate that there has been such a long time lapse between the conference and the publication of the proceedings. The method of printing was apparently selected to expedite publication. The book is attractively bound, with a hard cover, but the first 26 pages of my review copy were poorly collated, with the result that several pages were off-center; several lines of legend were also omitted, and some labels within figures were not translated into English, as they should have been to provide uniformity. A subject index would have been helpful.

The book accomplishes its intent to provide the scientific community with knowledge and understanding of some of the new developments in nutrition, metabolism, physiology, histogenesis, morphogenesis, genetics, cytology, and pathology as applied to tissue culture. It also makes accessible an accurate account of the conference to those who were not fortunate enough to be present.

Y. SAGAWA

University of Hawaii, Honolulu

Biophysical Research

Although the title does not indicate it, this book, **Ultrasonic Energy: Biological Investigations and Medical Applications** (University of Illinois Press, Urbana, 1965. 396 pp., \$12.50), edited by Elizabeth Kelly, comprises the proceedings of a symposium sponsored by the Biophysical Research Group of the University of Illinois (Urbana) in June 1962. Owing to the prestige and the important pioneering work of the host laboratories—as reflected in the fact that they contributed 7 of the 25 papers (about one-third of the book)—these symposia are held in high esteem and attract most of the active workers in the field. This alone would be sufficient reason to recommend the book to all who have more than a passing interest in the field. That there are not many similar books only serves to emphasize this point.

Papers from 17 laboratories, in 7 countries across the world, together with the discussions, are presented. The topics cover many aspects of the current application of ultrasound in experimental, therapeutic, and diagnostic fields, with the exception of ultrasonic diathermy techniques used in physical medicine. All the papers are well written, in English, and with remarkably few apparent errors—no mean achievement considering the fact that ten of the papers originate from four non-English-speaking countries. The majority of the papers are of high standard and present work that was reasonably recent in 1962. Why it takes more than 2½ years to publish verbatim reports of a symposium, when authors are generally rushed into correcting and returning transcriptions within 24 hours, is a baffling question. But this delay, in addition to impeding dissemination of information, probably lowers the quality of papers presented at symposia, because authors are likely to seek prompt publication of their new and good work in reputable journals.

The proceedings are presented *in toto*; thus the book is illustrated profusely, almost to superfluity. For example, although Figs. 3 to 7 in chapter 8 were probably useful during verbal presentation, they serve little or no purpose in print. The quality of the illustrations is generally high with a few exceptions—for example, Figs. 5 and 6 in chapter 14. The electron micrographs in chapter 8 leave much to be desired, even when judged by the standards of 1962.

The chairmen of various sessions make tantalizing references to the “unusual interest of previous symposia,” but these are neither listed nor numbered. Because the proceedings were apparently published under different titles, and by different publishers, it is not easy to satisfy the curiosity aroused. Inclusion of a cumulative index of subjects and authors, and the affiliations of active participants, in the space that could be made available by judicious omissions of illustrations, such as photographs of equipment to which the only reference is something like “Fig. X shows the generator” (for example, Fig. 1 in chapter 12; and Fig. 1 in chapter 23, since it reappears as part of Fig. 3), would enhance the usefulness of the book.

Notwithstanding these minor and hopefully constructive criticisms, congratulations are due all those concerned with the production of the book and

particularly the editor, who also organized the symposium. The book should be accessible to all interested in the field and is recommended not as a textbook or as an applications guide but as a statement of the state of art—the state of art in 1962.

PADMAKAR P. LELE

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New Books

Mathematics, Physical Sciences, and Engineering

Advances in Computers. vol. 6. Franz L. Alt and Morris Rubinoff, Eds. Academic Press, New York, 1965. xvi + 310 pp. Illus. \$13. Six papers: “Information retrieval” by Claude E. Walston; “Speculations concerning the first ultraintelligent machine” by Irving John Good; “Digital training devices” by Charles R. Wickman; “Number systems and arithmetic” by Harvey L. Garner; “Considerations on man versus machines for space probing” by P. L. Bargellini; and “Data collection and reduction for nuclear particle trace detectors” by Herbert Gelernter.

Advances in Control Systems: Theory and Applications. vol. 2. C. T. Leondes, Ed. Academic Press, New York, 1965. 323 pp. Illus. \$13. Five papers: “The generation of Liapunov functions” by D. G. Schultz; “The application of dynamic programming to satellite intercept and rendezvous problems” by F. T. Smith; “Synthesis of adaptive control systems by function space methods” by H. C. Hsieh; “Singular solutions in problems of optimal control” by C. D. Johnson; and “Several applications of the direct method of Liapunov” by Richard Allison Nesbit.

Atmospheric Oxidation and Antioxidants. Gerald Scott. Elsevier, New York, 1965. 540 pp. Illus. \$26.

The Chemistry of Open-Chain Organic Nitrogen Compounds. vol. 1, *Functions Derived from Ammonia: Amines, Amides, Imines, Nitriles, Isocyanates, Etc.* Peter A. S. Smith. Benjamin, New York, 1965. 368 pp. Illus. \$19.50.

Contributions to Statistics. C. R. Rao, Ed. Pergamon, New York; Statistical Publishing Co., Calcutta, India; 1965. 532 pp. Illus. \$18. Thirty-two papers presented to Professor P. C. Mahalanobis on the occasion of his 70th birthday.

Disquisitiones Arithmeticae. Carl Friedrich Gauss. Translated from the second German edition (Gottingen, 1870) by Arthur A. Clarke. Yale Univ. Press, New Haven, Conn., 1966. 492 pp. Illus. Paper, \$2.95; cloth, \$12.50.

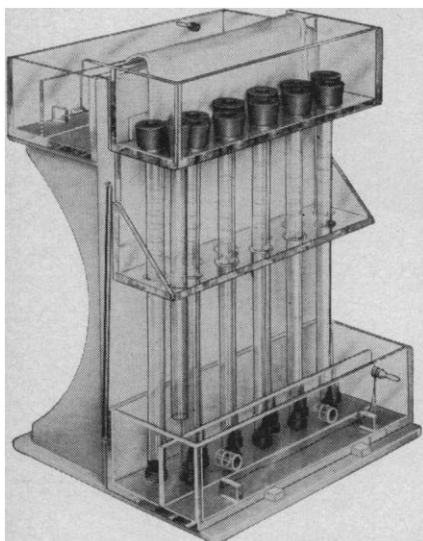
Electricity and Magnetism: An Introduction to the Theory of Electric and Magnetic Fields. Oleg D. Jefimenko. Appleton-Century-Crofts (Meredit), New York, 1966. 605 pp. Illus. \$13.

Elements of Probability Theory. L. Z. Rumshiskii. Translated from the Russian

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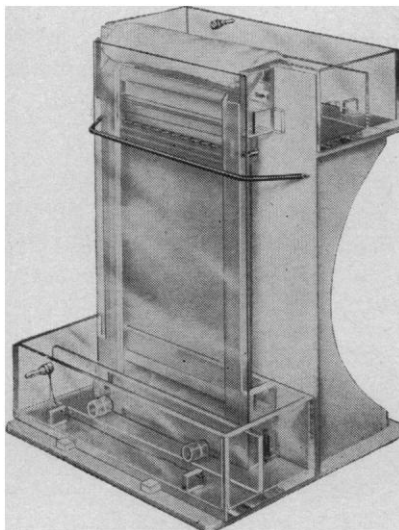
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NEW BOOKS

(Continued from page 814)

edition (Moscow, 1960) by D. M. G. Wishart. Pergamon, New York, 1965. Illus. \$5.50.

Encyclopedia of Polymer Science and Technology: Plastics, Resins, Rubbers, Fibers. vol. 3, *Casting to Cohesive-Energy Density*. Herman F. Mark, Norman G. Gaylord, and Norbert M. Bikales, Eds. Interscience (Wiley), New York, 1965. 876 pp. Illus. \$50.

Essentials of Earth History: An Introduction to Historical Geology. William Lee Stokes. Prentice-Hall, Englewood Cliffs, N.J., ed. 2, 1966. 480 pp. Illus. \$8.95.

Estimation Theory. Ralph Deusch. Prentice-Hall, Englewood Cliffs, N.J., 1965. 285 pp. Illus. \$13.

Extractive Metallurgy: Principles and Application. W. H. Dennis. Philosophical Library, New York, 1965. 381 pp. Illus. \$15.

Extrusion Casting. Vladimir M. Plyatskii. Translated from the Russian edition (Moscow, 1964) by R. E. Hammond. Adolph Wald, Translation Ed. Primary Sources, New York, 1965. 320 pp. Illus. \$22.50.

Failure-Tolerant Computer Design. William H. Pierce. Academic Press, New York, 1965. 256 pp. Illus. \$8.50.

Ferromagnetism and Ferromagnetic Domains. D. J. Craik and R. S. Tebble. North-Holland, Amsterdam; Interscience (Wiley), New York, 1965. 349 pp. Illus. \$14. Volume 4 of the Series of Monographs on Selected Topics in Solid State Physics, edited by E. P. Wohlfarth.

The Fundamentals of Mathematical Analysis. vol. 2. G. M. Fikhtengol'ts. Translated from the Russian edition (Moscow, 1960) by Ann Swinfen. Ian N. Sneddon, Translation Ed. Pergamon, New York, 1965. 540 pp. Illus. \$9.50.

Fundamentals of Physics. Henry Semat. Holt, Rinehart, and Winston, New York, ed. 4, 1966. 765 pp. Illus. \$9.95.

Gasdynamics of Combustion. K. I. Shchelkin and Ya. K. Troshin. Translated from the Russian by Boris W. Kuvshinov and Lester Holtschlag. Mono Book Corp., Baltimore, 1965. 234 pp. Illus. \$11.50.

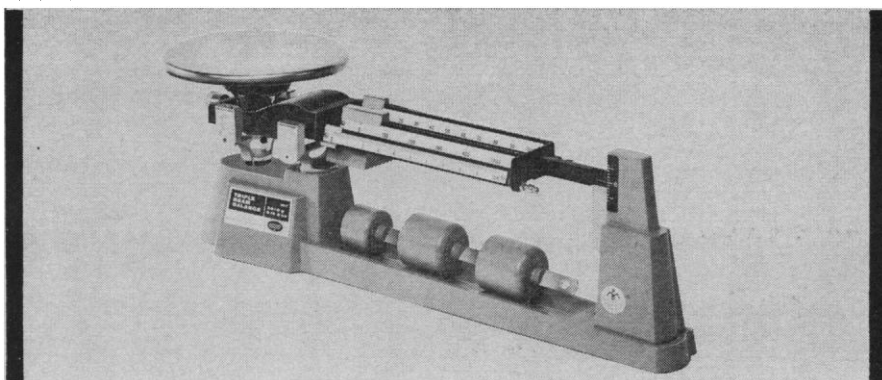
The Geology of Scotland. Gordon Y. Craig, Ed. Archon Books, Hamden, Conn., 1965. 572 pp. Illus. \$20. Chapters were contributed by G. Y. Craig, P. McL. D. Duff, E. H. Francis, T. N. George, A. Hallam, M. R. W. Johnson, E. L. P. Mercy, J. B. Sissons, F. H. Stewart, E. K. Walton, C. D. Waterston, and Janet Watson.

Geology of the Himalayas. Augusto Gansser. Interscience (Wiley), New York, 1964. 305 pp. Illus. Maps.

The Growth of Crystals from the Melt. J. C. Brice. North-Holland, Amsterdam; Interscience (Wiley), New York, 1965. 202 pp. Illus. \$8.50. A volume in the Series of Monographs on Selected Topics in Solid State Physics, edited by E. P. Wohlfarth.

The Hydrocyclone. D. Bradley. Pergamon, New York, 1966. 346 pp. Illus. \$20. Monographs in Chemical Engineering. Volume 4 of the International Series of

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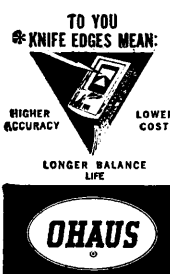
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Industrial Stroboscopy. Gilbert Kiven-son. Hayden, New York, 1965. 292 pp. Illus. \$9.95.

Integral Transforms and Operational Calculus. V. A. Ditkin and A. P. Prudnikov. Translated from the Russian edition (Moscow, 1961) by D. E. Brown. Ian N. Sneddon, Translation Ed. Pergamon, New York, 1965. 541 pp. Illus. \$15.50. International Series of Monographs in Pure and Applied Mathematics, vol. 78.

Interpretive Spectroscopy. Stanley K. Freeman, Ed. Reinhold, New York, 1965. 301 pp. Illus. \$17.50. Five papers: "Ultra-violet absorption spectroscopy" by W. F. Forbes; "Infrared absorption spectroscopy" by Maurizio Gianturco; "Far infrared spectroscopy" by James E. Stewart; "Mass spectrometry" by Henry A. Bondarovich and Stanley K. Freeman; and "Proton nuclear magnetic resonance spectroscopy" by Ajay K. Bose.

Introduction à l'Optique Corpusculaire. Noël J. Félici. Gauthier-Villars, Paris, 1965. 136 pp. Illus. Paper, F. 33. La Physique dans l'Industrie et au Laboratoire, edited by M. Louis Weil.

An Introduction to Chemical Industry. John Manning. Pergamon, New York, 1965. 282 pp. Illus. Paper. \$3.95. Commonwealth and International Library of Science.

Introduction to Electronic Analogue Computers. C. A. A. Wass and K. C. Garner. Pergamon, New York, ed. 2. 1965. 312 pp. Illus. \$8.50. International Series of Monographs in Electronics and Instrumentation, vol. 6.

Introduction to General Topology. Sze-Tsen Hu. Holden-Day, San Francisco, 1966. 240 pp. Illus. \$8.50. A volume in the Holden-Day Series in Mathematics, edited by Earl A. Coddington and Andrew M. Gleason.

Investigations in the Field of Organolead Chemistry. L. C. Willemsens and G. J. M. van der Kerk. International Lead Zinc Research Organization, New York, 1965. 145 pp. Illus. Paper.

Lie Groups for Physicists. Robert Hermann. Benjamin, New York, 1966. 203 pp. Illus. \$12.50. Mathematical Physics Monograph Series, edited by A. S. Wightman.

Linear Analysis of Electronic Circuits. Glenn M. Glasford. Addison-Wesley, Reading, Mass., 1966. 592 pp. Illus. \$15. Addison-Wesley Series in Electrical Engineering.

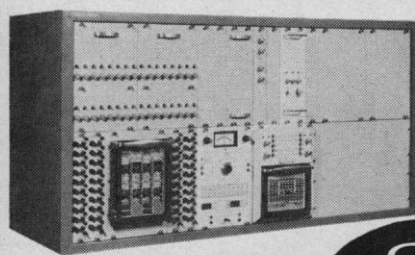
Mathematical Analysis: A Special Course. G. Ye. Shilov. Translated from the Russian edition (Moscow, 1961) by J. D. Davis. D. A. R. Wallace, Translation Ed. Pergamon, New York, 1965. 497 pp. Illus. \$13. Volume 77 of the International Series of Monographs in Pure and Applied Mathematics.

Methods of Thermodynamics. Howard Reiss. Blaisdell (Ginn), New York, 1965. 237 pp. Illus. \$8.50. A Blaisdell Book in the Pure and Applied Sciences.

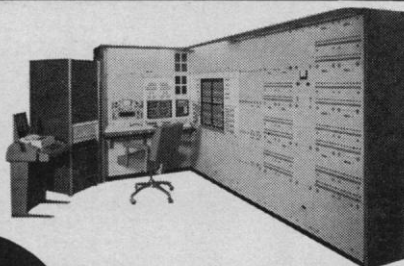
Mineral Studies. E. Wm. Heinrich, Ed. Mineralogical Soc. of America, Washington, D.C., 1965. 305 pp. Illus. Paper. \$3.25. Twenty-one papers. The volume is dedicated to Paul Francis Kerr on the occasion of his retirement.

Molecular Symmetry: An Introduction to Group Theory and Its Uses in Chemistry. David S. Schonland. Van Nostrand,

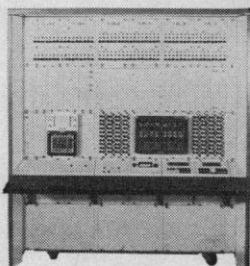
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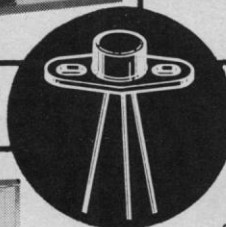
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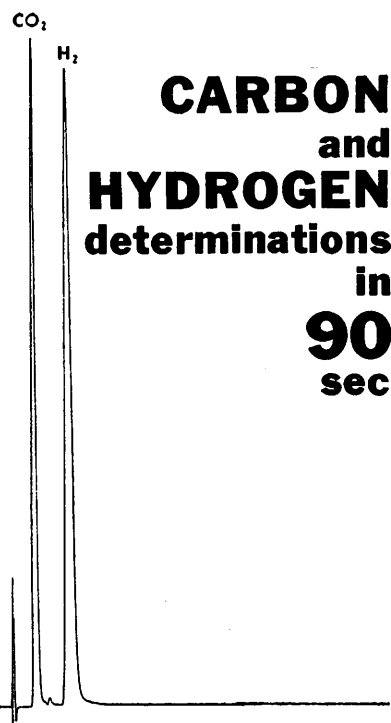


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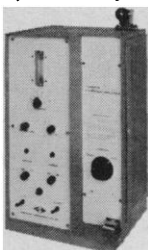
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Princeton, N.J., 1965. 310 pp. Illus. \$12.

Multiplet Structure of Atoms and Molecules. Richard Stevenson. Saunders, Philadelphia, 1965. 200 pp. Illus. \$5.75. Studies in Physics and Chemistry Series.

Newer Redox Titrants. A. Berka, J. Vulterin, and J. Zyka. Translated by H. Weisz. Pergamon, New York, 1965. 255 pp. Illus. \$10.

Nonclassical Ions. Reprints and commentary. Paul D. Bartlett. Benjamin, New York, 1965. 573 pp. Illus. Paper, \$6.95; cloth, \$12. This volume, which is published in the Frontiers in Chemistry Series, edited by Ronald Breslow and Martin Karplus, contains 75 papers, reprinted from various journals, and published during the years 1937 to 1964.

Non-Linear Transformations of Stochastic Processes. P. I. Kuznetsov, R. L. Stratonovich, and V. I. Tikhonov, Eds. Translated by O. M. Blunn. J. Wise and D. C. Cooper, Translation Eds. Pergamon, New York, 1965. 496 pp. Illus. \$20. Thirty-nine papers: Some Problems of the Theory of Stochastic Processes (7 papers); The Effect of Noise on Certain Non-Linear Elements (8 papers); The Effect of Fluctuations on Oscillator Operation (12 papers); Random Function Excursions (6 papers); and Optimum Filtration (6 papers).

Numerical Mathematics. Jerome C. R. Li. Edwards, Ann Arbor, Mich., 1966. 657 pp. Illus. \$10.

Open Channel Flow. F. M. Henderson. Macmillan, New York, 1966. 544 pp. Illus. \$14.95. Macmillan Series in Civil Engineering, edited by Gene Nordby.

Petrogenesis of Metamorphic Rocks. Helmut G. F. Winkler. Translated from the German by N. D. Chatterjee and E. Froese. Springer-Verlag, New York, 1965. 220 pp. Illus. Paper, \$4.95.

Physical Acoustics: Principles and Methods. vol. 3, pt. B. *Lattice Dynamics.* Warren P. Mason, Ed. Academic Press, New York, 1965. 356 pp. Illus. \$12. Seven papers: "Use of sound velocity measurements in determining the Debye temperature of solids" by George A. Alers; "Determination and some uses of isotropic elastic constants of polycrystalline aggregates using single-crystal data" by O. L. Anderson; "The effect of light on the mechanical properties of alkali halide crystals" by Robert B. Gordon; "Magneto-elastic interactions in ferromagnetic insulators" by R. C. LeCraw and R. L. Comstock; "Effect of thermal and phonon processes on ultrasonic attenuation" by P. G. Klemens; "Effect of impurities and phonon processes on the ultrasonic attenuation of germanium, crystal quartz, and silicon" by Warren P. Mason; and "Attenuation of elastic waves in the earth" by L. Knopoff.

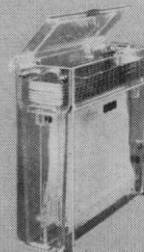
Plastic Analysis and Design. vol. 1, *Beams and Frames.* C. E. Massonnet and M. A. Save. Translated from the French. Blaisdell (Ginn), New York, 1965. 393 pp. Illus. \$10.50.

Potential Scattering. V. DeAlfaro and T. Regge. North-Holland, Amsterdam; Interscience (Wiley), New York, 1965. 215 pp. Illus. \$8.

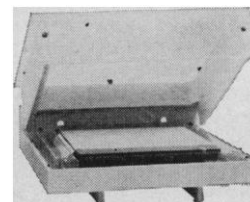
Preparations of Metals for Painting. Samuel Spring. Reinhold, New York, 1965. 326 pp. Illus. \$12.

Principles of Electrodynamics. Aleksey

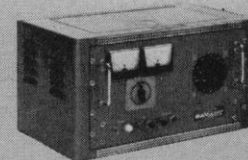
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Problems in Undergraduate Physics. vol. 2, *Electricity and Magnetism*. S. P. Strelkov, I. A. El'tsin, and S. E. Khaikin. Translated from the third Russian edition (Moscow, 1964) by D. E. Brown. D. ter Haar, Translation Ed. Pergamon, New York, 1965. 212 pp. Illus. \$5.50.

Problems in Undergraduate Physics. vol. 4, *Molecular Physics, Thermodynamics, Atomic and Nuclear Physics*. V. L. Ginzburg, L. M. Levin, M. S. Rabinovich, and D. V. Sivukhin. Translated from the revised Russian edition (Moscow, 1960) by D. E. Brown. D. ter Haar, Translation Ed. Pergamon, New York, 1965. 244 pp. Illus. \$5.50.

Programming, Games, and Transportation Networks. Claude Berge and A. Ghouila-Houri. Translated from the French edition (Paris, 1962) by Maxine Merrington and C. Ramanujacharyulu. Methuen, London; Wiley, New York, 1965. 270 pp. Illus. \$8.75.

Radiative Contributions to Energy and Momentum Transport in a Gas. Douglas H. Sampson. Interscience (Wiley), New York, 1965. 194 pp. Illus. \$8.50. Interscience Tracts on Physics and Astronomy, vol. 26, edited by R. E. Marshak.

Rolling Mills. A. I. Tselikov and V. V. Smirnov. Translated from the Russian edition by M. H. T. Alford. W. J. McG. Tegart, Translation Ed. Pergamon, New York, 1965. 415 pp. Illus. \$25.

Semiconductor Surfaces. A. Many, Y. Goldstein, and N. B. Grover. North-Holland, Amsterdam; Interscience (Wiley), New York, 1965. 512 pp. Illus. \$17.50.

Sound Control and Thermal Insulation of Buildings. Paul Dunham Close. Reinhold, New York, 1966. 510 pp. Illus. \$17.

Space Communications Techniques. Richard F. Filipowsky and Eugen I. Muehldorf. Prentice-Hall, Englewood Cliffs, N.J., 1965. 351 pp. Illus. \$11.95. Space Technology Series, edited by C. W. Besserer and Floyd E. Nixon.

Structural and Tectonic Principles. Peter C. Badgley. Harper and Row, New York, 1965. 541 pp. Illus. \$13.95.

The Structure of Small Molecules. W. J. Orville-Thomas. Elsevier, New York, 1966. 199 pp. Illus. \$9.50. Principles of Modern Chemistry: A Guide to Advanced Study Series, vol. 1, edited by W. F. Forbes and W. J. Orville-Thomas.

Symbolic Logic and the Real Number System: An Introduction to the Foundations of Number Systems. A. H. Lightstone. Harper and Row, New York, 1965. 237 pp. Illus. \$7.50. Harper's Series in Modern Mathematics, edited by I. N. Herstein and Gian-Carlo Rota.

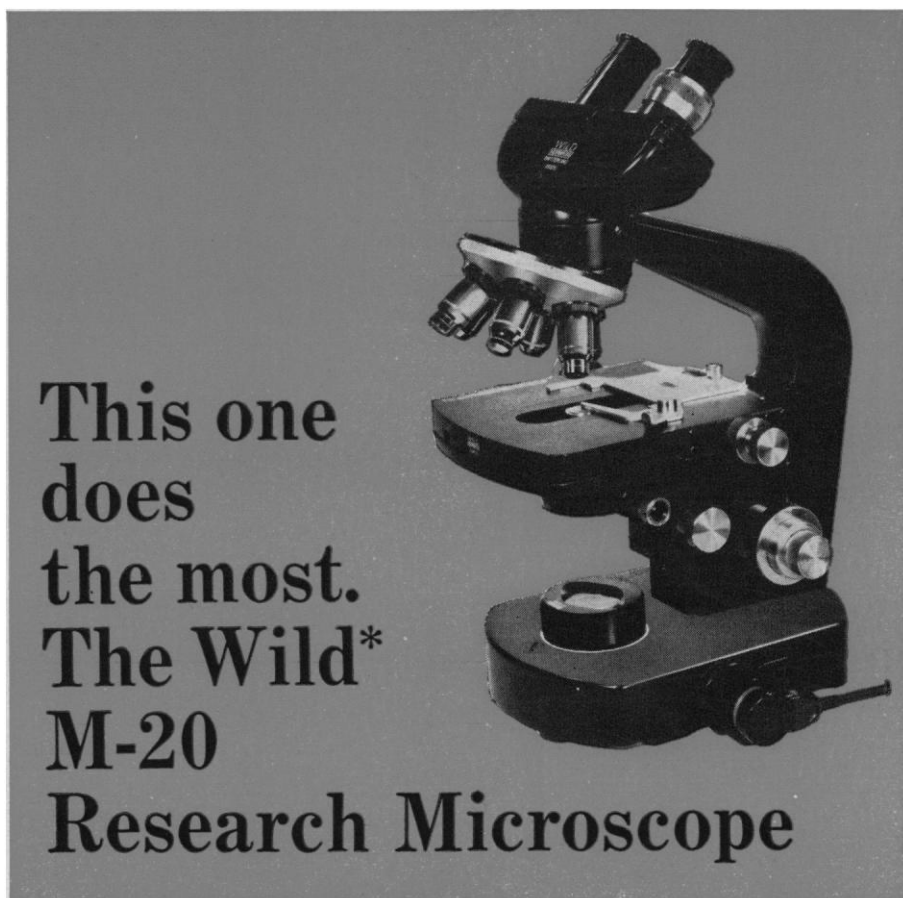
Tables of Generalized Airy Functions for the Asymptotic Solution of the Differential Equations $(py')' + (q^{})y = f$.** L. N. Nosova and S. A. Tumarkin. Translated from the Russian edition (Moscow, 1961) by D. E. Brown. Pergamon, New York, 1965. 123 pp. Illus. \$5.

The Theory of Stochastic Processes. D. R. Cox and H. D. Miller. Wiley, New York, 1965. 408 pp. Illus. \$11.50.

Traité de Tectonique. Jean Goguel. Masson, Paris, ed. 2, 1965. 463 pp. Illus. F. 68.

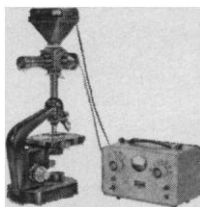
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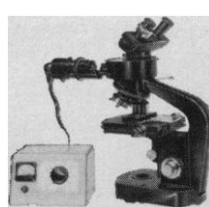


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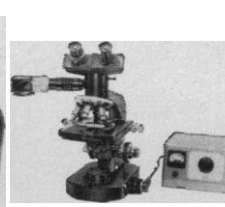
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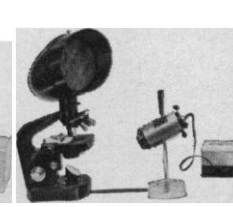
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