

Books Received

Citation: *Physics Today* **14**(11), 70 (1961); doi: 10.1063/1.3057249

View online: <http://dx.doi.org/10.1063/1.3057249>

View Table of Contents:

<http://scitation.aip.org/content/aip/magazine/physicstoday/14/11?ver=pdfcov>

Published by the [AIP Publishing](#)



**'On the way to a
graphene spin field effect transistor'**

by Prof. Barbaros and the Özylmaz Group at National University of Singapore

Download a FREE application note

**OXFORD
INSTRUMENTS**
The Business of Science®

BOOKS RECEIVED

- BRANDEIS UNIVERSITY SUMMER INSTITUTE IN THEORETICAL PHYSICS. (Lecture Notes). By C. Möller, P. T. Matthews, J. Schwinger, N. Fukuda, J. J. Sakurai. 544 pp. Brandeis Univ., Waltham, Mass., 1960. Paperbound \$3.50.
- A FORTRAN PROGRAM FOR ELASTIC SCATTERING ANALYSES WITH THE NUCLEAR OPTICAL MODEL. By Michale A. Melkanoff, David S. Saxon, John S. Nodvik, David G. Cantor. 116 pp. Univ. of California Press, Berkeley, 1961. Paperbound \$4.50.
- RELATIONS DE DISPERSION ET PARTICULES ÉLÉMENTAIRES. C. DeWitt and R. Omnès, eds. 671 pp. (Hermann, Paris) John Wiley & Sons Inc., New York, 1960. \$20.00.
- INTRODUCTION TO ELEMENTARY PARTICLE PHYSICS. By R. E. Marshak and E. C. G. Sudarshan. No. 11 of Tracts on Physics and Astronomy, edited by R. E. Marshak. 231 pp. Interscience Publishers, Inc., New York, 1961. Clothbound \$4.50, paperbound \$2.50.
- CONTEMPORARY PROBLEMS OF METALLURGY. A. M. Samarin, ed. Transl. from Russian. 530 pp. Consultants Bureau Enterprises, Inc., New York, 1961. \$16.00.
- NUMERICAL WEATHER ANALYSIS AND PREDICTION. By Philip D. Thompson. 170 pp. The Macmillan Co., New York, 1961. \$6.50.
- THE PLASMA STATE. By E. J. Hellund. 197 pp. Reinhold Publishing Corp., New York, 1961. \$6.50.
- TOPOLOGY. By John G. Hocking and Gail S. Young. 374 pp. Addison-Wesley Publishing Co., Inc., Reading, Mass., 1961. \$8.75.
- FORTSCHRITTE DER HOCHFREQUENZTECHNIK, Vol. 5. M. Strutt, F. Vilbig, F. Rühmann, eds. 412 pp. Akademische Verlagsgesellschaft mbH, Frankfurt/Main, 1960. DM 48.00.
- MAGNETISM AND MAGNETIC MATERIALS. Conf. Proc. (New York, Nov. 1960). Supplement to the *Journal of Applied Physics*, Vol. 32 (1961). Publications comm.: J. A. Osborn, H. Brooks, A. M. Clogston, C. L. Hogan, J. A. Krumbansl. 399 pp. Publ. for AIP by McGraw-Hill Book Co., Inc., New York, 1961. \$10.00.
- BASIC CONCEPTS IN MODERN MATHEMATICS. By John E. Håfstrom. 195 pp. Addison-Wesley Publishing Co., Inc., Reading, Mass., 1961. \$5.75.
- INTRODUCTION TO ENGINEERING MECHANICS. By John V. Huddleston. 493 pp. Addison-Wesley Publishing Co., Inc., Reading, Mass., 1961. \$9.75.
- PROBABILITY: A FIRST COURSE. By Frederick Mosteller, Robert E. K. Rourke, George B. Thomas, Jr. 319 pp. Addison-Wesley Publishing Co., Inc., Reading, Mass., 1961. \$5.00.
- ALGEBRA WITH APPLICATIONS TO BUSINESS AND ECONOMICS. By Paul H. Daus and William M. Whyburn. 354 pp. Addison-Wesley Publishing Co., Inc., Reading, Mass., 1961. \$6.75.
- ADVANCES IN ELECTRON TUBE TECHNIQUES. Conf. Proc. (Sept. 1960). David Slater, ed. 235 pp. Pergamon Press, Inc., New York, 1961. \$15.00.
- PLASMAS AND CONTROLLED FUSION. By David J. Rose and Melville Clark, Jr. 493 pp. The M.I.T. Press and John Wiley & Sons, Inc., New York, 1961. \$10.75.
- MODERN ALGEBRA FIRST COURSE. By Richard E. Johnson, Lona Lee Lendsey, and William E. Slesnick. 628 pp. Addison-Wesley Publishing Co., Inc., Reading, Mass., 1961. \$5.28.
- PLASTIC FLOW AND FRACTURE IN SOLIDS. By Tracy Y. Thomas. Vol. 2 of Mathematics in Science and Engineering, edited by Richard Bellman. 267 pp. Academic Press Inc., New York, 1961. \$8.50.
- STATIC RELAYS FOR ELECTRONIC CIRCUITS. Richard F. Blake, ed. 198 pp. Engineering Publishers, Elizabeth, N. J., 1961. Distrib. by Reinhold Publishing Corporation, New York. \$7.00.
- ELECTRONIC MEASURING INSTRUMENTS. By Harold E. Soisson. 352 pp. McGraw-Hill Book Co., Inc., New York, 1961. \$7.50.
- INSTRUMENTATION FOR HIGH-ENERGY PHYSICS. Conf. Proc. (Berkeley, Sept. 1960). Charlotte E. Mauk, Arthur H. Rosenfeld, R. K. Wakerling, editorial bd. 321 pp. Lawrence Radiation Laboratory. Distr. by Interscience Publishers, Inc., New York, 1961. \$10.00.
- MODELL DER EXOSPHERE IM HÖHENBEREICH 1000-1700 KM BERECHNET AUS DEN BAHNÄNDERUNGEN DES SATELLITEN Echo I. By Max Römer. No. 997 of Forschungsberichte des Landes Nordrhein-Westfalen. 34 pp. Westdeutscher Verlag, Köln, 1961. Paperbound DM 10.60.
- PROGRESS IN VERY HIGH PRESSURE RESEARCH. Conf. Proc. (Bolton Landing, N. Y., June 1960). F. P. Bundy, W. R. Hibbard, Jr., H. M. Strong, eds. 314 pp. John Wiley & Sons, Inc., New York, 1961. \$12.00.
- METEOR SCIENCE AND ENGINEERING. By D. W. R. McKinley. 309 pp. McGraw-Hill Book Co., Inc., New York, 1961. \$12.50.
- FUEL ELEMENT FABRICATION. With Special Emphasis on Cladding Materials. IAEA Symp. Proc. (Vienna, May 1960). Vol. 1, 538 pp., \$14.00. Vol. 2, 384 pp., \$10.00. Academic Press Inc., New York, 1961.
- TRANSISTORS AND ACTIVE CIRCUITS. By John G. Linvill and James F. Gibbons. 515 pp. McGraw-Hill Book Co., Inc., New York, 1961. \$14.50.
- POLARIZATION PHENOMENA OF NUCLEONS. Symp. Proc. (Basel, July 1960). P. Huber and K. P. Meyer, eds. *Helvetica Physica Acta*—Supplementum VI. 435 pp. Birkhäuser Verlag, Basel, 1961. sFr. 65.00.
- THE ABUNDANCE OF THE ELEMENTS. By Lawrence H. Aller. Vol. 7 of Monographs and Texts in Physics and Astronomy, edited by R. E. Marshak. 282 pp. Interscience Publishers, Inc., New York, 1961. \$10.00.
- THE SCIENCE OF ADHESIVE JOINTS. By J. J. Bickerman. 258 pp. Academic Press Inc., New York, 1961. \$8.00.
- ELEMENTARY PARTICLES (Reprint of 1951 ed.). By Enrico Fermi. 110 pp. Yale Univ. Press, New Haven, Conn., 1961. Paperbound \$1.25.
- AN INTRODUCTION TO THE ANALYSIS OF SPIN-SPIN SPLITTING IN HIGH-RESOLUTION NUCLEAR MAGNETIC RESONANCE SPECTRA. By John D. Roberts. 116 pp. W. A. Benjamin, Inc., New York, 1961. \$4.95.

A MANUAL FOR NUCLEAR MEDICINE. By E. R. King and T. G. Mitchell. 406 pp. Charles C Thomas, Publisher, Springfield, Ill., 1961. \$13.50.

THERMOELECTRICITY: SCIENCE AND ENGINEERING. By Robert R. Heikes and Roland W. Ure, Jr. 575 pp. Interscience Publishers, Inc., New York, 1961. \$18.50.

THE QUANTUM MECHANICS OF MANY-BODY SYSTEMS. By D. J. Thouless. Vol. 11 of Pure and Applied Physics, edited by H. S. W. Massey. 175 pp. Academic Press Inc., New York, 1961. \$5.50.

SECRECY AND PUBLICITY. Dilemmas of Democracy. By Francis E. Rourke. 236 pp. The Johns Hopkins Press, Baltimore, Md., 1961. \$5.00.

MODELS AND ANALOGUES IN BIOLOGY. Symp. Proc. (Univ. of Bristol, Sept. 1959). 255 pp. (Cambridge Univ. Press, London) Academic Press Inc., New York, 1960. \$9.50.

ADVANCES IN ELECTRONICS AND ELECTRON PHYSICS, VOLUME 14. L. and C. Marton, eds. 341 pp. Academic Press Inc., New York, 1961. \$11.00.

REACTOR HANDBOOK, VOLUME 2: FUEL REPROCESSING (2nd ed.). S. M. Stoller and R. B. Richards, eds. 665 pp. Interscience Publishers, Inc., New York, 1961. \$21.40.

PROCEEDINGS OF URSI THIRTEENTH GENERAL ASSEMBLY. (London, Sept. 1960). Report of the USA Nat'l Committee of URSI. 595 pp. (Publication 880) Nat'l Academy of Sciences—Nat'l Research Council, Washington, D. C., 1961. Paperbound \$5.00.

CONCEPTS IN ELECTRICITY AND MAGNETISM. By Reuben Benumof. 374 pp. Holt, Rinehart and Winston, New York, 1961. \$5.75.

THE PHYSICAL BASIS OF POLARIZED EMISSION. By P. P. Feofilov. Transl. from Russian. 274 pp. Consultants Bureau Enterprises, Inc., New York, 1961. \$12.50.

FORCES AND FIELDS. The Concept of Action at a Distance in the History of Physics. By Mary B. Hesse. 318 pp. Thomas Nelson and Sons Ltd., Edinburgh, 1961. 35s.

UNTERSUCHUNG ÜBER DIE VORGÄNGE IN FESTSTOFFBELADENEN GASSTRÖMEN. By Otto Adam. No. 904 of Forschungsberichte des Landes Nordrhein-Westfalen. 165 pp. Westdeutscher Verlag, Köln, 1960. Paperbound DM 48.20.

TABLES OF BLACKBODY RADIATION FUNCTIONS. By Mark Pivovonsky and Max R. Nagel. 481 pp. The Macmillan Co., New York, 1961. \$12.50.

HANDBOOK OF THERMOPHYSICAL PROPERTIES OF SOLID MATERIALS. (Revised ed.). Alexander Goldsmith, Thomas E. Waterman, Harry J. Hirschhorn, eds. Vol. 1, Elements, 752 pp.; Vol. 2, Alloys, 1270 pp.; Vol. 3, Ceramics, 1162 pp.; Vol. 4, Cermet, Intermetallics, Polymerics, and Composites, 798 pp.; Vol. 5, Appendix, 286 pp. The Macmillan Co., New York, 1961. \$90.00 the set.

WRITING A TECHNICAL PAPER. By Donald H. Menzel, Howard Mumford Jones, Lyle G. Boyd. 132 pp. McGraw-Hill Book Co., Inc., New York, 1961. \$3.25.

AXIAL FLOW FANS. Design and Practice. By R. A. Wallis. 366 pp. Academic Press Inc., New York, 1961. \$10.00.

THE THIRD LAW OF THERMODYNAMICS. By J. Wilks. 142 pp. Oxford Univ. Press, London & New York, 1961. 15s.

MECHANICAL BEHAVIOR OF MATERIALS AT ELEVATED TEMPERATURES. John E. Dorn, ed. 529 pp. McGraw-Hill Book Co., Inc., New York, 1961. \$14.50.

MAN AND DOLPHIN. By John C. Lilly. 312 pp. Doubleday & Co., Inc., Garden City, N. Y., 1961. \$4.95.



ULTRA HIGH IMPEDANCE VOLTAGE SENSOR HALEX, INC., Model 302E ELECTROSENSOR



II Due to its unique ability to follow precisely voltages at extremely low currents the 302E ELECTROSENSOR now makes possible measurements of currents heretofore considered impossible Applications in Electronics, Nuclear Research... ionization chambers, proton beam generators, nuclear reaction monitoring and controlling.

Voltage Readout	100 mv to 250 v full scale (2% accuracy)
Input Impedance	Greater than 10^{11} ohms
Output Impedance	Lower than 0.2 ohms (.02% accuracy)
Input Capacity	Less than .01 uuf
Following Accuracy	Within .001% of input voltage (at 500 ohms)
Sensitivity	To 60 electrons/second (10^{-18} amperes)

Size: 10" x 7" x 4" • Weight: 9 lbs.

Other HALEX products include high impedance transistorized amplifiers, micro-miniaturized vacuum deposited circuits and vacuum deposited thin magnetic films.

Write for complete data, specifications
and application information.

HALEX, INC.



CALIFORNIA

310 EAST IMPERIAL HIGHWAY, EL SEGUNDO, CALIFORNIA