

G. Greenler, (P) Diffraction Gratings by R. P. Madden and John Strong, (Q) Mathematical Review by Trevor Williams.

The make-up of the book—its composition and typography, the illustrations, the quality of the paper—are all in keeping with the high standard achieved in the text. However, a few criticisms may be made. In a book of this kind, requiring much mathematical formulation, the question of symbols is important, and if the choice is limited it is almost inevitable that some symbols must do double duty. To avoid ambiguity it is desirable, therefore, to restrict the various styles of type to various classes of magnitudes; for instance, Greek letters for angles; lower-case italics for ratios, constants, and other scalar quantities; bold-face Roman letters, preferably without serifs, for vectors; etc. Unfortunately, such a plan has not been followed in this book, and we see, for example, the letter r used to designate a ray, a radius, and an angle; h , h , and h used for Planck's constant; lower-case bold-face Roman letters for the unit vectors, for the speed of light, and for Boltzmann's constant; and italic capitals, capped with a macron, for the field vectors. All this is confusing to a reader and could be avoided if writers of physical mathematics could agree on a standardized scheme of notation. Finally, it is suggested that on page 168 the words "nuclear reactor" replace the word "cyclotron".

Books Received

A COMPREHENSIVE BIBLIOGRAPHY ON OPERATIONS RESEARCH (through 1956, with supplement for 1957). By Operations Research Group, Case Inst. of Technology. 188 pp. John Wiley & Sons, Inc., New York, 1958. \$6.50.

INTRODUCTION À L'ANALYSE DIMENSIONNELLE ET AUX PROBLÈMES DE SIMILITUDE EN MÉCANIQUE DES FLUIDES. By R. Comolet. 116 pp. Masson et Cie, Paris, France, 1958. Paperbound 1.600 fr.

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INTEGRATION OF SCIENCE. By Frederick Crook. 99 pp. Ere Nouvelle, Lausanne, Switzerland, 1958. Paperbound.

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MATTER AND GRAVITY. By Eigil Rasmussen. 75 pp. Exposition Press, New York, 1958. \$3.50.

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LES ONDES CENTIMÉTRIQUES. By G. Raoult. 401 pp. Masson et Cie, Paris, France, 1958. Clothbound 7.300 fr.; paperbound 6.500 fr.

QUANTUM MECHANICS, NON-RELATIVISTIC THEORY. Vol. 3 of Course of Theoretical Physics. By L. D. Landau, E. M. Lifshitz. Translated from Russian by J. B. Sykes & J. S. Bell. 515 pp. (Pergamon Press Ltd., England) For US and Canada only, Addison-Wesley Publishing Co., Inc., Reading, Mass., 1958. \$12.50.

ELECTROSTATICS. Electronic Technology Series, No. 166-17. Edited by Alexander Schure. 64 pp. John F. Rider Publisher, Inc., New York, 1958. Paperbound \$1.35.

ÉTUDE DES TEXTURES PIÉZOÉLECTRIQUES. By A. V. Shubnikov, I. S. Zheludev, V. P. Konstantinova, I. M. Silvestrova. Translated from Russian by A. Daknoff. 207 pp. Dunod, Paris, France, 1958. 2.750 fr.

LES SEMICONDUCTEURS. By P. Aigrain & F. Englert. 203 pp. Dunod, Paris, France, 1958. 980 fr.

LA CHROMATOGRAPHIE. By L. Savidan. 109 pp. Dunod, Paris, France, 1958. 680 fr.

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INSPECTION FOR DISARMAMENT. Edited by Seymour Melman. 291 pp. Columbia U. Press, New York, 1958. \$6.00.

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