

BOOK REVIEWS

Photoemissive Materials-Preparation, properties and uses

by A. H. Sommer, John Wiley & Sons, Inc, 1968, \$ 12.95

This is probably the first book on the subject after the well known work by Hughes and DuBridge. The author a well known worker in the field has collected in a single volume all relevant informations on photoemissive materials which have so long been scattered in different journals. The book is mainly devoted to the technology of the subject though theoretical aspects have also been qualitatively discussed. Finally the book contains an excellent up-to-date bibliography on photoemissive materials. It will be an useful reference book for all workers in the field.

A. K. D.

A First Course In Vector Analysis

by Maity and Ghosh, New Central Book Agency, Calcutta-9

Fourth Edition, March 1969, pp. 284, Rs. 5/-

The earlier editions of Maity and Ghosh's "A First Course in Vector Analysis" are well known to the undergraduate students of Indian Universities for whom the treatise is intended. In this new edition the authors have preserved the excellent balance between the mathematical treatment of the fundamentals and their interesting applications that characterized the earlier volumes. They have now added new materials in the form of differential operators.

The basic principles of vectors are presented in the first four chapters of the book. The subject has been developed logically, approaching from algebraic as well as geometric points of view. Applications to numerous examples have made the subject illustrative. The fifth chapter presents a short course of vector calculus in which the concepts of limit and continuity of vector differentiation and integration have been introduced. Chapters six and seven involve the application of vectors to differential geometry and elementary mechanics dealing with the motion of particles. The last chapter is a new addition which introduces, in a concise form, the differential operators giving the idea of gradient, divergence and curl.

The book is written for the undergraduate students at the Pass and Honours level, presuming only an elementary knowledge of algebra and geometry. The latter part of the text presents materials suitable for post graduate students. The book is written in an interesting and logical style, reflecting extensive experience of the authors as teachers.

J. G. C.