

The material in this text has been tried and found suitable for a six-semester-hour course on the subject for engineering students. A systematic development of the subject is arranged under the chapter headings: Set Theory and Boolean Algebra, Combinatorial Analysis, Discrete and Continuous Probability Theories, Properties of Statistical Samples, Parametric Point Estimation and Parametric Interval Estimation, Order Statistics and Non-Parametric Methods, Hypothesis Testing.

A hundred-page appendix on mathematical preliminaries makes the book nearly self-contained. Original and carefully designed problems are given at the end of each chapter to enable the student understand the various concepts introduced in the text. A. S. G.

The Fat-Soluble Vitamins. Edited by H. F. DeLuca and J. W. Sutte. (The University of Wisconsin Press, Box 1379, Madison, Wisconsin 53701, USA), 1970. Pp. xvi + 531. Price \$15.00.

The role that vitamins play in human health and disease has been too well recognized and they in one form or another have become an essential part of man's diet and medicine. But the exact function of the vitamins and their metabolites, their mechanism of action especially at the cellular level have yet to be elucidated and they have become subject of intense investigation in recent years. The pace of research has been accelerated by the availability of new experimental tools such as radiochemical forms of vitamins, techniques such as chromatography, NMR and mass spectroscopy, etc. Further, there are new problems connected with indirect effects of vitamins. Thus, for example, the part that vitamin A plays in controlling bone growth, maintaining epithelial tissues, and forming visual pigments is fairly well known. Now, it is being found that vitamin A has a role in reproduction also either directly or indirectly (p. 267).

These new fields of investigation on fat-soluble vitamins D, A, E and K, form the content of the present volume. It is a symposium of papers which bring out the results of recent researches utilizing a much-needed interdisciplinary approach to the subject. The thirty odd studies included in this volume are contributions by nearly fifty working scientists on the subject at a symposium organized in 1969 at the University of Wisconsin in honour of Professor Harry Steenbock (1886-1967)

whose pioneering work on the fat-soluble anti-rachitic vitamin is well known.

There are 13 papers on vitamin D, 8 papers on vitamin A, and 6 each on vitamins E and K, besides three clinical reports. The publication should be of particular interest to students of nutrition, physiology, biochemistry, pharmacology and medicine. A. S. G.

ANNOUNCEMENTS

Institution of Chemists (India)—Associateship Examination, 1972

The Twenty-second Associateship Examination of the Institution of Chemists (India) will be held in November, 1972. The last date for Registration is 30th November, 1971. The Examination is recognised by the Government of India as equivalent to M.Sc. in Chemistry for purposes of recruitment of Chemists.

Further enquiries regarding this and for Membership may be made to the Honorary Secretary, Institution of Chemists (India), Chemical Department, Medical College, Calcutta-12.

Award of Research Degrees

Banaras Hindu University, Varanasi, has awarded the Ph.D. Degree in Metallurgical Engineering to Shri C. Suryanarayana, Shri N. R. Pillai, Shri B. Prasad, Shri Ashok Mohan and Shri G. P. Tiwari.

The M.S. University of Baroda has awarded the Ph.D. degree in Mathematics to Shri V. M. Shah.

Osmania University, Hyderabad, has awarded the Ph.D. degree in Botany to Shri A. Narsing Rao and Ph.D. degree in Physics to Shri K. Ramabrahmam.

Utkal University has awarded the Ph.D. degree in Botany to Shri M. V. Nagaraja Setty.

S.V. University, Tirupati, has awarded the Ph.D. degree in Botany to Shri K. V. Madhava Rao.

Books Received

General Topology. By Stephen Willard. (Addison-Wesley Pub. Co., Reading, Massachusetts), 1970. Pp. xii + 369. Price 126 sh.

Experiments in Physical Science (Preliminary Edition). By O. P. Puri (Addison-Wesley Pub. Co., Reading, Massachusetts), 1970. Pp. x + 83. Price 26 sh.

Concepts in Physical Science. (Preliminary Edition.) By O. P. Puri. (Addison-Wesley Pub. Co., Reading, Massachusetts), 1970. Pp. xv + 399. Price 61 sh.