
REVIEWS AND NOTICES OF BOOKS

The Harvey Lectures, Series 60 (1964-65). (Academic Press, Inc., New York and London), 1966. Pp. xiv + 314. Price \$ 9.50.

The book contains the lectures delivered under the auspices of the Harvey Society of New York, and under the patronage of the New York Academy of Medicine.

The titles of the lectures contained in this book are: The Immune Response to a Simple Antigenic Determinant, by Herman N. Eisen; The Biological Significance of Uric Acid, by Alexander B. Gutman; Biosynthesis of the Sympathetic Neurotransmitter, Norepinephrine, by Sidney Udenfriend; The Fine Structure of Striated Muscle and Its Functional Significance, by Hugh E. Huxley; Biochemical Aspects of Metamorphosis: Transition from Ammonotelism to Urotelism, by Philip P. Cohen; The Comparative Anatomy of a Gene, by S. E. Luria; The Emperor's New Clothes, or an Inquiry into the Present Status of Tumor Viruses and Virus Tumors, by Hilary Koprowski; The Nerve Growth Factor: Its Mode of Action on Sensory and Sympathetic Nerve Cells, by Rita Levi-Montalcini; Gluconeogenesis: Pathways and Hormonal Regulation, by Henry A. Lardy.

C. V. R.

Handbook of Physical Constants. Edited by Sydney P. Clark, Jr. (Memoir 97). (The Geological Society of America), 1966. Pp. vii + 587. Price \$ 8.75.

The scope of this book is indicated by the list of sections given below: 1. Composition of rocks, by S. P. Clark, Jr.; 2. Abundances of the elements, by A. G. W. Cameron; 3. Isotopic abundances and 1961 atomic weights, by S. P. Clark, Jr.; 4. Density of rocks, by R. A. Daly, G. E. Manger, and S. P. Clark, Jr.; 5. X-ray crystallographic data, densities, and molar volumes of minerals, by R. A. Robie, P. M. Bethke, M. S. Toulmin, and J. L. Edwards; 6. Thermal expansion, by B. J. Skinner; 7. Compressibility; elastic constants, by Francis Birch; 8. Internal friction in rocks, by J. J. Bradley and A. N. Fort, Jr.; 9. Seismic velocities, by Frank Press; 10. Geodetic data, by G. J. F. MacDonald; 11. Strength and ductility, by John Handin; 12. Viscosity, by S. P. Clark, Jr.; 13. Melting and transformation points in oxide and silicate systems at low pressure, by F. C. Kracek and S. P. Clark, Jr.;

14. Phase relations in sulfide-type systems, by G. Kullerud; 15. High-pressure phase equilibria, by S. P. Clark, Jr.; 16. Pressure-volume-temperature and phase relations of water and carbon dioxide, by G. C. Kennedy and W. T. Holser; 17. Binary mixtures of volatile components, by H. J. Greenwood and H. L. Barnes; 18. Ionization constants in aqueous solutions, by H. L. Barnes and H. C. Helgeson; 19. Solubility, by S. P. Clark, Jr.; 20. Thermodynamic properties of minerals, by R. A. Robie; 21. Thermal conductivity, by S. P. Clark, Jr.; 22. Heat flow and volcanic temperatures, by W. H. K. Lee and S. P. Clark, Jr.; 23. Radioactive decay constants and energies, by G. W. Wetherill; 24. Abundances of uranium, thorium, and potassium, by S. P. Clark, Jr., Z. E. Peterman and K. S. Heier; 25. Magnetic properties of rocks and Minerals, by D. H. Lindsley, G. E. Andreasen, and J. R. Balsley; 26. Electrical properties of rocks and minerals, by G. V. Keller; 27. Conversion factors, numerical constants, atomic constants, by S. P. Clark, Jr.

C. V. R.

Research Program Effectiveness. Edited by M. C. Yovits, D. M. Gilford, R. H. Wilcox, E. Staveley and H. D. Lerner. (Gordon and Breach, Science Publishers, 150, Fifth Avenue, New York, N.Y. 10011), 1966. Pp. xvii + 542. Price: Professional edition \$ 10.00; Reference edition \$ 29.50.

This book represents the Proceedings of the Conference sponsored by the Office of Naval Research, Washington, D.C., held from July 27 to 29, 1965.

The contents of the volume are: Management of Interface Problems between Basic and Applied Research, by J. E. Goldman and L. M. McKenzie; Project Selection in Industrial R and D: Problems and Decision Processes, by R. G. Brandenburg; State-of-the-Art Projection and Long-Range Planning of Applied Research, by F. Pardee; Program Planning in a Science-Based Service Organisation, by W. A. Hahn and H. D. Pickering; Questioning the Cost/Effectiveness of the R and D Procurement Process, by E. B. Roberts; Information Systems for the Test of Hypotheses Pertaining to the Theory of Research Management, by N. S. Prywes and M. Silver; New Tools for Improving and Evaluating the Effectiveness of Research,

by I. H. Sher and E. Garfield; Evaluating Two Aspects of Quality in Research Program Effectiveness, by H. M. Vollmer; Specialized Versus Generalized Models in Research Budgeting, by R. L. Ackoff; A Graph Oriented Model for Research Management, by O. Morgenstern, R. W. Shephard, and H. Gradowski; On Stochastic Scheduling, by W. E. Hildenbrand; Stochastic Networks in Research Planning, by B. V. Dean; Optimal Real-Time Control of Research Funding, by A. Charnes and A. C. Stedry; Some Properties of Project Schedule Recovery Limits, by P. V. Norden; Proposal Generation and Evaluation Methods in Research and Exploratory Development, by B. Sobin and A. Proschan; Sources of Ideas and Their Effectiveness in Parallel R and D Projects, by T. J. Allen; Diffusion of Innovations Resulting from Research: Implications for Research Program Management, by A. Shapero; Feedbacks in Social Systems, by N. Rashevsky; Some Common Concepts and Tentative Findings from a Ten-Project Program of Research on R and D Management, by A. H. Rubenstein; The Role of the Research Administrator, by C. W. Churchman, C. F. Kruytbosch and P. Ratoosh; Organizational Factors in Project Performance, by D. G. Marquis and D. M. Straight, Jr.; Preconceptions and Reconceptions in the Administration of Science, by G. Gordon; Conflict and Performance in R and D Organizations: Some Preliminary Findings, by W. M. Evan; Behavior and Self-Identity of Federal Scientist-Administrators, by E. S. Uyeki.

C. V. R.

General Entomology for Agricultural Students.

By H. L. Kulkarny. (Asia Publishing House), Pp. 292. Price Rs. 15.00.

The book has been prepared by an experienced teacher with the specific object of providing a hand-book on entomology for agricultural students preparing for the graduate examination. The material, covering the usual syllabus, has been carefully arranged, and all essential information has been neatly presented. The first half of the book is general dealing with anatomy, metamorphoses and growth, circulation, reproduction, respiratory and nervous systems of insects. The second half deals with classified groups of insects of agricultural importance. The book is amply illustrated.

A. S. G.

Experiments in General Chemistry. By C. N. R. Rao and U. C. Agarwala. [Affiliated East West Press, (Pt.) Ltd., C-57, Defence Colony, New Delhi-3], Pp. 292. Price Rs. 9.50.

This is a laboratory manual in which 45 simple experiments are described to illustrate the basic principles of chemistry. The selected experiments are such as can be set up within the modest budget of an ordinary undergraduate college. The price appears to be too high for the mimeographed get-up in close-spaced typing.

A. S. G.

Text Books on Botany

An Introduction to Gymnosperms. By S. C. Datta. (Asia Publishing House, Calicut Street, Ballard Estate, Bombay-1), Pp. 168. Price Rs. 12.00.

Structure and Reproduction of the Gymnosperms. By B. S. Trivedi and D. K. Singh. (Shashidhar Malaviya Prakashan, 34, West Nayagaon, Lucknow), Pp. 185. Price Rs. 18.50. Authors' Copyright.

These two books written by teachers of the subject will form suitable text-books on gymnosperms for undergraduate and Honours students of botany. They include both living and fossil gymnosperms, and emphasis has been given to Indian types and work done in India on these types. There are descriptive chapters on Pteridospermæ, Cycadeoidales, Cycadales, Cordaitales, Ginkgoales, Coniferales, Gnetales, etc. The books are well illustrated and got up.

A. S. G.

Books Received

Thermodynamics Principles and Applications to Engineering. By Dr. Ing. Ernst Schmidt. (Translated from 3rd German Edition, by J. Kestin) (Dover Publications, Inc., New York), 1966. Pp. xx + 532. Price \$ 3.00.

Transients in Power Systems. By H. A. Peterson. (Dover Publications, Inc., New York), 1966. Pp. xx + 532. Price \$ 3.00.

Atomic Energy and Its Applications (2nd Edn.). By J. M. A. Lenihan (Sir Isaac Pitman & Sons, Pitman House, Parker St., Kingsway, London W.C. 2). Pp. xiii + 336. Price 45 sh.

Die Säugetiere Der Sowjetunion (Band I) Paarhufer und Unpaarhufer. By V. G. Heptner, A. A. Nasimovic und A. G. Bannikov. (VEB Gustav Fischer Verlag, 69 Jena, Villengang), 939. Price MDN 163.20.