

BOOK REVIEWS

N. G. GAYLORD, Editor

Giessharze in der Elektronischen Technik. C. A. HARPER, Carl Hanser Verlag, München, 1963. 348 pp., DM 54.00.

This book is a translation of the American book by C. A. Harper entitled, *Electronic Packaging with Resins*. Discusses the various casting resins, fillers, foams, and embedding media. Is designed primarily for the electrical engineer.

Kunststoff-Handbuch. Vol. II. Polyvinylchlorid. Part 1. Von Rohstoff zum Halbzeug und Fertigartikel, xviii + 624 pp., DM 96.00; and **Part 2. Verarbeitung und Verwendung von Kunststoffhalbzeugen,** xiii + 456 pp., DM 72.00. K. KREKELER and G. WICK, Eds., Carl Hanser Verlag, München, 1963.

A comprehensive, very well documented discussion of PVC from polymerization to final products, including properties, compounding, fabrication, and uses. Covers such topics as plastisols, foams, pipe, and films, and contains many excellent illustrations.

Fluidized-Bed Coating with Plastics; Technology and Potential for Military Applications. A. H. LANDROCK, Plastics Technical Evaluation Center, Picatinny Arsenal, New Jersey, through Office of Technical Services, Washington, D. C., 1964. viii + 223 pp., \$3.50.

Reviews the state of the art of this very interesting coating technique. Discusses resins, factors influencing the process, its advantages and limitations, and its applications. Has a lengthy annotated bibliography, a thorough index, and many illustrations.

Kunststoffkunde für Ingenieure. C. M. VON MEYSENBUG, Carl Hanser Verlag, München, 1963. 188 pp., DM 19.80.

This paperback presents, after a short introduction to the chemistry of plastics, a discussion of the properties of plastics and their technology. Topics such as molding, extrusion, welding, and foaming are discussed.

Kunststoff-Extrudertechnik. G. SCHENKEL, Carl Hanser Verlag, München, 1963. 540 pp., DM 78.00.

This second edition of a work that first appeared in 1959 is enlarged by some 200 pages. It includes detailed discussion of the theory and practice of the extrusion of polymers. Has a lengthy bibliography and an abundance of illustrations.

Glasfaserverstärkte Kunststoffe. W. BEYER, Carl Hanser Verlag, München, 1963. 129 pp., DM 9.80.

The third edition of this paperback describes the mechanical behavior, thermal properties, and wear of glass-reinforced plastics. The various methods of preparing the reinforced materials are discussed as well as applications in various industries.

PVC-Folien. H. THOMASS, Carl Hanser Verlag, München, 1963. 312 pp., DM 34.00.

This book aims to present a comprehensive discussion of the preparation, raw materials, methods of preparation, properties, test methods, fabrication, and uses of the films.

Physico-Mechanical Testing of Unvulcanised and Vulcanised Rubber. Translated from Trudy Nauchno-Issledovatel'skogo Instituta Shinnoi Promyshlennosti (Transactions of the Tyre Research Institute, Moscow, 1960) by R. J. MOSELEY, R. A. AMOS and J. R. SCOTT, Rubber and Plastics Research Association of Great Britain, Maclaren & Sons Ltd., London, 1962. iv + 152 pages, \$7.00.

This volume is a collection of eleven papers on the analysis and testing of such specific products as tires, cellular rubbers, latex products, etc., which have been developed and are used in the Soviet Union. The properties of these products which are discussed in considerable detail include fatigue, tear strength, wear resistance, low temperature properties, tensile testing at high temperatures, aging, zone resistance, and shelf stability. An interesting glossary of technical terms and abbreviations used in the Soviet Union appears at the end of the volume.

25 Jahre Kunststoff-Schweissen. G. HAIM, Carl Hanser Verlag, München, 1963. 95 pp., DM 12.80.

On the occasion of the 25th year since the issuance of the first patents on welding of vinyl polymers, this review discusses the polymers susceptible to welding, the methods and apparatus needed, and applications in the plastics area. Includes a listing of raw materials by trade name.