

Bennett touches briefly on many different aspects of waxes but does not go into any particular area in depth.

Numerous graphs and charts are included which have little or no significance and are not discussed further in the text. Many comments about many waxes are taken directly from service bulletins which are out of date or misleading. The scarcity of footnotes makes it difficult to follow up and obtain more information on briefly covered subjects. Often waxes which are chemically identical but sold under two different trade names are treated as though they were two different waxes. Too much emphasis is placed on trade names of waxes and not chemical structure.

The last 13 pages in Vol. 2 are devoted to test methods of various waxes. This should have been placed near the center of the volume under the section "Test Techniques."

Despite these numerous shortcomings, *Industrial Waxes* is a good reference book. It is the only single reference which attempts to cover the entire spectrum of waxes.

DAVID BOWER
American Hoechst Corp.
Somerville, NJ 08876

Polymer Molecular Weights, Vol. 4, Parts I and II, Edited by Philip E. Slade, Jr. (Marcel Dekker, Inc., New York, NY, 1975, 286 and 337 p., \$24.50 and \$27.50, respectively).

This book is published as a two-part set that comprises Vol. 4 of the series *Techniques and Methods of Polymer Evaluation*. Part I begins with an introduction that explains the concept of the various average molecular weights and introduces the reader to molecular weight distribution. The various chapters are concerned with membrane osmometry, end group determination, absolute colligative property methods, and light scattering. Part II deals with gel permeation chromatography, the viscometric methods for studying molecular weight and molecular weight distribution, and ultracentrifugation sedimentation techniques.

In general, this two-part volume is a useful, needed publication that combines into one comprehensive source information that had been available only in various places. Written by experts in the various methods of molecular weight determination, the books allow one to draw on their backgrounds. Vol. 4 certainly should be useful to the practical chemist, for whom it was intended. However, the various chapters do contain theoretical background information of advantage to those wishing to delve into such considerations. Because the end-use characteristics and properties of polymers depend on molecular weight, the insights and information contained in this work will be useful to most, if not all, people concerned with polymers. In short, it is felt that these books will be well received by the scientific community.

JOSEPH V. KOLESKE
Union Carbide Corp.
South Charleston, WV 25303

Process Quality Control: Troubleshooting and Interpretation of Data, Ellis R. Ott (McGraw-Hill Book Co., New York, NY, 1975, 379 p., \$14.95).

This book is simply prepared in a physical form which makes the contents easily usable by the reader. The Table of Contents presents headings of subjects that pinpoint areas of statistics and quality control vital in investigations of industrial problems. The Table of Contents is immediately followed by a separate listing of case histories that is quite helpful in the quick location of an appropriate application of statistics.

The chapters and their contents are presented in a logical order that could be achieved only by a person greatly

experienced in the field of education. Reading the book, I was assured that the author's experiences in both industrial applications and classroom instructions of statistics had been well integrated in his presentation.

Ott mentions in the Preface a number of well-known personalities who have written profusely in the field of statistics. I am sure that his contacts with such people as W.A. Shewhart, H.F. Dodge, P.S. Olmstead, and E.B. Ferrell have enriched this text with suggestions and rules for troubleshooting in industrial applications that have not been totally suggested by other authors.

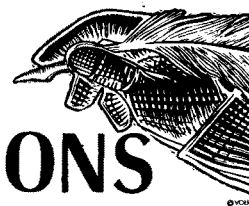
Certainly, any person working in any industrial situation would find the explanations of statistical applications and related case histories useful in solving production problems related to quality or improvement in current production standards. However, any person using this text should have some previous instruction in basic statistics; a simple short preparatory course would be sufficient.

A weakness of this text is that large blank spaces often remain to the right or left of tables or graphs of data (e.g., p. 221). After noting that Table A-12 of the Appendix was not printed on p. 359 of the copy I was reading, I became suspicious of other blank areas and often was uncertain as to whether other omissions had been made. I believe the blank areas on such pages could have been better utilized.

Nonetheless, this text should become a "must" for all colleges and universities in the business of educating process engineers and chemists. It is this broad group of industrial people who will find it most useful.

RICHARD E. BREESE, JR.
Colgate-Palmolive Co.
Jeffersonville, IN 47130

NEW PUBLICATIONS



Index to the 1975 Annual Book of ASTM Standards, American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103, 288 p., \$4.00.

Directory of Testing Laboratories, Commercial-Institutional, Special Technical Publication 333D, American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103, 68 p., \$3.75.

1975 ASTM Proceedings, American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103, 566 p., \$18.00.

1975-1976 List of ASTM Publications, American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103, 30 p., free.

Soap; Engine Coolants; Polishes; Halogenated Organic Solvents; Activated Carbon; Industrial Chemicals, Part 30 of the *1975 Annual Book of ASTM Standards*, American Society for Testing and Materials, 1916 Race St., Philadelphia, PA 19103, 930 p., \$29.00.

Handbook of Materials Science: Vol. III. Nonmetallic Materials and Application, Edited by Charles T. Lynch, CRC Press, Inc., 18901 Cranwood Parkway, Cleveland, OH 44128, 642 p.

Toxic and Hazardous Industrial Chemicals Safety Manual, The International Technical Information Institute, Tokyo, Japan. Available from Media International Promotions, Inc., 114 East 32 St., New York, NY 10016, 580 p., \$65.00.