



Handbook of Pulping and Papermaking, Second Edition

By Christopher J. Biermann

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In its Second Edition, **Handbook of Pulping and Papermaking** is a comprehensive reference for industry and academia. The book offers a concise yet thorough introduction to the process of papermaking from the production of wood chips to the final testing and use of the paper product. The author has updated the extensive bibliography, providing the reader with easy access to the pulp and paper literature. The book emphasizes principles and concepts behind papermaking, detailing both the physical and chemical processes.

- A comprehensive introduction to the physical and chemical processes in pulping and papermaking
- Contains an extensive annotated bibliography
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Editorial Review

Review

"The first 20 chapters of this second edition are virtually unchanged from the first, *Essentials of Pulping and Papermaking* (1993). This first eleven chapters provide an overview of the pulp and papermaking processes from raw material to finished product. A technical background is not necessary to understand this material. The next nine chapters require familiarity with chemistry, physics, and mathematics to understand topics such as paper chemistry, pulping calculations, leaching, etc. The next 14 chapters form an excellent overall technical reference; they include topics such as surface chemistry, wet end chemistry, graphic arts, optical properties of paper, wood anatomy and characteristics, nonwood pulping materials, process control, and hydraulics. All chapters are well referenced and contain excellent drawings, photos and/or color plates. Many study problems are included at the end of each chapter. This is the most complete, up-to-date single-volume pulp and paper work known to his reviewer. First edition owners who found only the first 11 chapters useful or accessible will not need the newer edition; those more technically oriented should consider its purchase." -

K.I. Mumme, University of Maine, in CHOICE

"Overall, the book is orderly, and assembled in a manner that permits the reader to extract what is needed. The combination of information on topics, and the relevant literature cited will provide the student and professional a solid basis for learning what is needed in the given area...The book is valuable in that the concepts are applicable and necessary to the professional or student of recycling. This book will be a key addition to the library of those working in the paper industry." --**Jeffrey Dyer in PROGRESS IN PAPER RECYCLING**

"Whether as a textbook for an introductory/survey course, or as a reference book for the mill process engineer, *Essentials of Pulping and Papermaking* is a worthwhile addition to the Pulp and Paper Science literature." --**WOOD AND FIBER SCIENCE**

From the Back Cover

The Second Edition of Handbook of Pulping and Papermaking is a comprehensive reference and educational tool for industry and academia. The Handbook offers a concise yet thorough introduction to the process of papermaking from the production of wood chips to the final testing and use of the paper product. Coverage in this expanded edition includes optical properties of paper, printing processes, wood and fiber anatomy, colloid and papermaking chemistry, process control, and hydraulics. Emphasis is placed on the principles and concepts behind papermaking, together with the details of both physical and chemical processes. An extensive bibliography provides ready access to the pulp and paper literature.

Users Review

From reader reviews:

Maria Asbury:

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Betty Giuliani:

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Martin Williams:

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