

acclimatization. Blair presents his observations on acclimatization to cold in animals. This is stimulating work, because he has reproduced frostbite using only low ambient temperatures. The lesions are closely comparable to those seen in man under field conditions. Sellers' studies confirm those of Blair in every particular, and his reproduction of partial acclimatization by thyroxin and cortisone is an important advance.

This book is recommended by three further features: Edholm's discussion of the hunting reaction (the finest since that of Sir Thomas Lewis in 1931), Fremont-Smith's knack of asking pointed questions and of summarizing problems, and the editing of Ferrer. Complete indexing and 185 selected references make it a significant, up-to-date, usable reference book on cold injury.

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Absorption and Extraction. 2nd ed. Thomas K. Sherwood and Robert L. Pigford. New York-London: McGraw-Hill, 1952. 478 pp. \$7.50.

This book is a complete and welcome revision of the useful first edition published in 1937. In the intervening 15 years the text has grown from 278 small pages to 478 larger ones, and this increase in size well represents the amount of valuable information added in the new edition.

The authors have been successful in presenting a survey of the field of gas absorption, which relates the work on many diverse aspects of the problem to the main purpose of designing absorption equipment. Except in the case of the most important concepts, the exposition is not detailed. The general outline and the value of the subject matter are presented, and the student is left to work out the details of the subject, or he may consult the references given. In recent years, there has been a tendency in engineering texts to work out every possible problem and save the reader the necessity of looking up or thinking out anything for himself. The method employed in this book is, in this reviewer's opinion, much to be preferred.

The first chapter covers molecular diffusion and generally resembles that of the first edition. The second chapter is new; it deals with eddy diffusion and turbulent flow and is an important addition to the text. Chapter III is concerned mainly with the analogies among heat, momentum, and mass transfer; it contains references to much new data which help illustrate the usefulness of the methods discussed. There is a new chapter on simultaneous heat and mass transfer, and the chapter on the principles of design has been greatly improved and brought up to date. The authors allotted about the right amount of space to coefficients and to transfer units.

The section on the design for multicomponent systems has been changed to include more and better

various methods of estimating the pressure drop in towers, the flooding point, and the performance of various types of equipment under different conditions are the subjects of the chapters that follow. The chapter on simultaneous absorption and chemical reaction has been expanded to include much practical data not available in the first edition.

The final chapter on liquid extraction is not as complete as the rest of the book, but even here the authors' knack for summarizing the state of the field is well displayed. There is a short appendix concerned with the economic factors in absorption equipment design. This subject perhaps deserves a little more attention in a book of this kind.

Although the book has been reviewed from the point of view of a graduate text in chemical engineering, it should be added that it is a valuable reference work and should find a place in the library of most engineers.

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Scientific Book Register

The Tertiary Cheilostomatous Polyzoa of New Zealand. David Alexander Brown. London: British Museum (Natural History), 1952. 405 pp. £4 10s.

The Practical Significance of Modern Cardiological Investigations. T. E. Lowe, H. B. Kay, and H. A. Luke. Victoria: Melbourne Univ. Press; New York: Cambridge Univ. Press, 1951-52. 206 pp. \$7.50.

Land for Tomorrow: The Underdeveloped World. L. Dudley Stamp. Bloomington: Indiana Univ. Press; New York: American Geographical Society, 1952. 239 pp. \$4.00.

Introduction to the Study of Physical Chemistry. Louis P. Hammett. New York-London: McGraw-Hill, 1952. 427 pp. \$6.00.

Zoology. Alfred M. Elliott. New York: Appleton-Century-Crofts, 1952. 719 pp. \$6.00.

The Exact Sciences in Antiquity. O. Neugebauer. Princeton, N. J.: Princeton Univ. Press, 1952. 191 pp. and 14 plates. \$5.00.

Principles of Human Relations: Applications to Management. Norman R. F. Maier. New York: Wiley; London: Chapman & Hall, 1952. 474 pp. \$6.00.

Kulturtechnische Botanik. Fritz Jürgen Meyer. Berlin-Nikolassee: Naturwissenschaftlicher Verlag, 1951. 264 pp. DM 9.

Biologische Grundprobleme und ihre Meister. Das Lebensproblem im Wandel der Jahrhunderte. 2nd ed. W. von Buddenbrock. Berlin-Nikolassee: Naturwissenschaftlicher Verlag, 1951. 161 pp. DM 10.80.

Dictionary of Architecture. Henry H. Saylor. New York: Wiley; London: Chapman & Hall, 1952. 190 pp. and 16 plates. \$4.50.

Functional Anatomy of the Mammal. A guide to the dissection of the cat and an introduction to the structural and functional relationship between the cat and man. 2nd ed. W. James Leach. New York-London: McGraw-Hill, 1952. 276 pp. \$4.50.

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M Carnoy



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Ludwig's Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker, 2010-07-19 The Fourth Edition of Applied Process Design for Chemical and Petrochemical Plants Volume 2 builds upon the late Ernest E Ludwig's classic chemical engineering process design manual Volume Two focuses on distillation and packed towers and presents the methods and fundamentals of plant design along with supplemental mechanical and related data nomographs data charts and heuristics The Fourth Edition is significantly expanded and updated with new topics that ensure readers can analyze problems and find practical design methods and solutions to accomplish their process design objectives A true application driven book providing clarity and easy access to essential process plant data and design information Covers a complete range of basic day to day petrochemical operation topics Extensively revised with new material on distillation process performance complex mixture fractionating gas processing dehydration hydrocarbon absorption and stripping enhanced distillation types

Applied Process Design for Chemical and Petrochemical Plants: Volume 2 Ernest E. Ludwig, 1997-11-24 This latest edition covers the technical performance and mechanical details of converting the chemical and petrochemical process into appropriate hardware for distillation and packed towers It incorporates recent advances and major innovations in distillation contacting devices and features new generations of packing In addition this new edition reflects the significant progress that has been made in process design techniques in recent years Volume 2's example calculation techniques guide in the preparation of preliminary and final rating designs In some instances the book includes manufacturers procedures and notes clearly indicate when manufacturers should verify results Covers distillation and packed towers and contains material on azeotropes and ideal and non ideal systems Includes important findings from recent literature to illustrate alternate design methods New illustrations and rating charts

Analytical Instrumentation Handbook Jack Cazes, 2004-11-30 Compiled by the editor of Dekker's distinguished Chromatographic Science series this reader friendly reference is as a unique and stand alone guide for anyone requiring clear instruction on the most frequently utilized analytical instrumentation techniques More than just a catalog of commercially available instruments the chapters are written by leading experts in the field

[Applied Process Design for Chemical and Petrochemical Plants](#) Ernest E. Ludwig, 1995 Updated to include technological and process developments in heat transfer refrigeration compression and compression surge drums this text emphasises how to apply techniques of process control and how to interpret results into equipment details

Chemical and Process Engineering Unit Operations Kathleen Bourton, 1968

Unit operations John Metcalfe Coulson, John Francis Richardson, 1955

Absorption and extraction Thomas K. Sherwood, Robert L. Pigford, 1971

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Industrial Separation Processes André B. de Haan, H. Burak Eral, Boelo Schuur, 2020-07-06 Separation processes on an industrial scale

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Table of Contents Absorption Extraction 2nd Edition

1. Understanding the eBook Absorption Extraction 2nd Edition
 - The Rise of Digital Reading Absorption Extraction 2nd Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Absorption Extraction 2nd Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Absorption Extraction 2nd Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Absorption Extraction 2nd Edition
 - Personalized Recommendations
 - Absorption Extraction 2nd Edition User Reviews and Ratings
 - Absorption Extraction 2nd Edition and Bestseller Lists
5. Accessing Absorption Extraction 2nd Edition Free and Paid eBooks

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 - Absorption Extraction 2nd Edition eBook Subscription Services
 - Absorption Extraction 2nd Edition Budget-Friendly Options
6. Navigating Absorption Extraction 2nd Edition eBook Formats
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 - Absorption Extraction 2nd Edition Compatibility with Devices
 - Absorption Extraction 2nd Edition Enhanced eBook Features
 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Absorption Extraction 2nd Edition
 - Interactive Elements Absorption Extraction 2nd Edition
 8. Staying Engaged with Absorption Extraction 2nd Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Absorption Extraction 2nd Edition
 9. Balancing eBooks and Physical Books Absorption Extraction 2nd Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Absorption Extraction 2nd Edition
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Absorption Extraction 2nd Edition
 - Setting Reading Goals Absorption Extraction 2nd Edition
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Absorption Extraction 2nd Edition
 - Fact-Checking eBook Content of Absorption Extraction 2nd Edition
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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