Chemical Engineering Series Absorption and Extraction

thomas k sherwood

Note: This is not the actual book cover

Absorption And Extraction Chemical Engineering Series

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Absorption And Extraction Chemical Engineering Series:

Absorption and extraction Thomas K. Sherwood, Robert L. Pigford, 1971 Absorption and Extraction Thomas Kilgore Sherwood, Robert Lamar Pigford, 1952 Absorption and Extraction ... Second edition [of Absorption and Extraction by Thomas K. Sherwood.] Thomas Kilgore SHERWOOD (and PIGFORD (Robert Lamar)), Robert Lamar Pigford, 1952

Simultaneous Mass Transfer and Chemical Reactions in Engineering Science Bertram K. C. Chan, 2023-02-01 Simultaneous Mass Transfer and Chemical Reactions in Engineering Science A comprehensive look at the basic science of diffusional process and mass transfer Mass transfer as a principle is an essential part of numerous unit operations in biomolecular chemical and process engineering crystallization distillation and membrane separation processes for example use this important method Given this significance particularly in engineering design where these processes occur understanding the design and analysis of such unit operations must begin with a basic understanding of how simultaneous mass transfer and the chemical reactions that influence these occurrences It is also vital to be aware of the most up to date technologies for analyzing and predicting the phenomena Given the significance of this process Simultaneous Mass Transfer and Chemical Reactions in Engineering Science is an important resource as it introduces the reader to the complex subject of simultaneous mass transfer with biochemical and chemical reactions and gives them the tools to develop an applicable design Analyzing the systems of simultaneous mass transfer and reactions is at the core of this book as all known design approaches are carefully examined and compared The volume also provides the reader with a working knowledge of the latest technologies with a special focus on the open sourced computer programming language R and how these tools are an essential resource in quantitative assessment in analysis models Simultaneous Mass Transfer and Chemical Reactions in Engineering Science provides a working knowledge of the latest information on simultaneous mass transfer and reactions by focusing on the analysis of this process as well as discussing the existence and distinctive quality of the solutions to the Simultaneous Mass Transfer and Chemical Reactions in Engineering Science readers will also find A theoretical basis of each design model that is carefully stated compared and assessed Carefully developed and established Existence and Uniqueness Theorems for a general design model Comprehensive coverage of how the programming language R may be used to analyze models Numerous examples and case studies that provide a working knowledge of simultaneous mass transfer and reactions Simultaneous Mass Transfer and Chemical Reactions in Engineering Science is a useful reference for students in chemical engineering biotechnology or chemistry as well as professional process and chemical engineers Absorption and Extraction [by] Thomas K. Sherwood and Robert L. Pigford Thomas Kilgore Sherwood, Robert Lamar Pigford, 1952

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techniques in the extraction and purification of rare metals such as uranium thorium and zirconium as well as hafnium titanium beryllium and vanadium The various chemical extraction stages from ore to metal are discussed Comprised of nine chapters this book begins with an examination of ore breakdown processes including dilute acid leaching and the breakdown of concentrated acids alkalis and fluorides as well as chlorination The reader is then introduced to ion exchange purification solvent extraction and dryway conversion processes Subsequent chapters focus on metal production by high temperature reduction techniques molten salt electrolytic processes and iodide decomposition processes. The final chapter includes a selection of complete flowsheets for the extraction and purification rare metals from ores This monograph will be of value to metallurgists chemical engineers chemists and others who are interested in the extraction of rare metals Separation Engineering Youzhi Liu, 2023-11-15 Hi Gee Chemical Separation Engineering introduces the basic concepts and technical terms of high gravity hi gee separation technology in a systematical way while also analyzing and expounding on the differences between centrifugal separation technology and high gravity separation technology. The book takes the problem elicitation theory principle key technology application case as the main line and introduces in detail the operation and technical contents of high gravity chemical separation such as absorption desorption distillation extraction and adsorption In addition the book highlights academic innovation and lists examples that are closely combined with practical production This book will be an indispensable reference for researchers engineers and technicians production managers and teachers and students of related majors in colleges and universities in chemical industry materials environment pharmacy food and other fields Offers in a single source high gravity chemical separation operation and technical content like absorption desorption distillation extraction and adsorption Integrates basic research theoretical innovation key technology breakthroughs and engineering application cases Features attractive and enlightening application prospects and outlooks Introduces development trends and direction of each high gravity separation operation technology Chemical The Chemical Trade Journal and Chemical Engineer G Kelville Davis, 1928 **Engineering Catalog** ,1917

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