

Unit operations of chemical engineering



Unit Operations In Chemical Engineering

Kathleen Armour

Unit Operations In Chemical Engineering:

Unit Operations of Chemical Engineering Warren Lee McCabe, Julian Cleveland Smith, 1967 **Unit Operations of Chemical Engineering** Julian Smith, Warren McCabe, Peter Harriott, emeritus, 2004-10-27 Recently Published Unit Operations of Chemical Engineering 7th edition continues its lengthy successful tradition of being one of McGraw Hill's oldest texts in the Chemical Engineering Series. Since 1956 this text has been the most comprehensive of the introductory undergraduate chemical engineering titles available. Separate chapters are devoted to each of the principle unit operations grouped into four sections: fluid mechanics, heat transfer, mass transfer, and equilibrium stages and operations involving particulate solids. Now in its seventh edition, the text still contains its balanced treatment of theory and engineering practice with many practical illustrative examples included. Almost 30% of the problems have been revised or are new, some of which cover modern topics such as food processing and biotechnology. Other unique topics of this text include diafiltration, adsorption and membrane operations. [Unit Operations of Chemical Engineering](#) Warren L. McCabe, Julian C. Smith, 1965

Unit Operations of Chemical Engineering McCabe W. L., 1980 [Unit Operations in Chemical Engineering](#), 1985

Transport Processes and Unit Operations Christie J. Geankoplis, 1983 This new third edition provides a modern unified treatment of the basic transport processes of momentum, heat and mass transfer as well as a broad treatment of the unit operations of chemical engineering. Coverage includes the latest membrane separation processes, discussion of bioprocesses, comprehensive treatment of the transport processes of momentum, heat and mass transfer, adsorption processes, and more. A useful up-to-date reference for practicing chemical engineers, agricultural engineers, food scientists, environmental engineers, biochemical engineers and others who work in the process industries. *Principles of Unit Operations* A. S. Foust, 1980-02-04 Emphasizes common fundamentals and interrelationships covering fluid mechanics, heat transfer and mass transfer. Update includes new technology, new analyses, new concepts, plus a mixture of SI and English systems.

Unit Operations Handbook John J. McKetta Jr., 2018-12-12 Emphasizes the design, control and functioning of various unit operations, offering shortcut methods of calculation along with computer and nomographic solution techniques. Provides practical sections on conversion to and from SI units and cost indexes for quick updating of all cost information. This book is designed for mechanical, chemical, process design, project and materials engineers and continuing education courses in these disciplines.

Unit Operations of Chemical Engineering McCabe, 1993-08-01 This is the solutions manual to a revised edition of a text on unit operations of chemical engineering which contains updated and new material reflecting in part the broadening of the chemical engineering profession into new areas such as food processing, electronics and biochemical applications. Operations, fluid mechanics, heat transfer, equilibrium stages and mass transfer, and operations involving particulate solids, and includes coverage of adsorption, absorption and membrane separation. There is also detailed treatment of solids handling operations and solid-liquid separations. The end-of-chapter problems have been revised. In

addition there is new material on membrane separations flow measurement dispersion operations supercritical extraction pressure swing adsorption and sedimentation **Chemical Engineering** John Metcalfe Coulson,1996 *Solutions Manual to Accompany Unit Operations of Chemical Engineering, 3d Edition* Warren Lee McCabe,Julian Cleveland Smith,1976

Unit Operations of Chemical Engineering Warren L. McCabe,2014 **Chemical Engineering** John M. Coulson,John F. Richardson,Raymond K. Sinnott,1976 **Unit Operations in Environmental Engineering** Louis Theodore,R. Ryan

Dupont,Kumar Ganesan,2017-09-18 The book presents the principles of unit operations as well as the application of these principles to real world problems The authors have written a practical introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich s 1961 classic work Unit Operations in Sanitary Engineering The book is designed to serve as a training tool for those individuals pursuing degrees that include courses on unit operations Although the literature is inundated with publications in this area emphasizing theory and theoretical derivations the goal of this book is to present the subject from a strictly pragmatic introductory point of view particularly for those individuals involved with environmental engineering This book is concerned with unit operations fluid flow heat transfer and mass transfer Unit operations by definition are physical processes although there are some that include chemical and biological reactions The unit operations approach allows both the practicing engineer and student to compartmentalize the various operations that constitute a process and emphasizes introductory engineering principles so that the reader can then satisfactorily predict the performance of the various unit operations equipment This is a definitive work on Unit Operations one of the most important subjects in environmental engineering today It is an excellent reference well written easily read and comprehensive I believe the book will serve well those working in engineering disciplines including those beyond just environmental and chemical engineering Bottom line A must for any technical library Kenneth J

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