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**CHEMICAL ENGINEERING SERIES**

# Unit Operations of Chemical Engineering

SEVENTH EDITION

Warren L. McCabe  
Julian C. Smith  
Peter Harriott

# McCabe Unit Operations Of Chemical Engineering

**Warren Lee McCabe, Julian Cleveland  
Smith**



## **Mccabe Unit Operations Of Chemical Engineering:**

**Unit Operations of Chemical Engineering** Warren Lee McCabe, Julian C. Smith, Peter Harriott, 2005 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

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**Unit Operations of Chemical Engineering** Warren Lee McCabe, 1985 **Unit Operations of Chemical Engineering** Warren Lee McCabe, 2005 Unit Operations of Chemical Engineering Warren L. McCabe, Julian C. Smith, 1965 **Unit Operations of Chemical Engineering**, 1993

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*Engineering* Warren Lee McCabe, Julian Cleveland Smith, 1976      *Preliminary Chemical Engineering Plant Design* W.D. Baasal, 1989-11-30 This reference covers both conventional and advanced methods for automatically controlling dynamic industrial processes      **Lees' Loss Prevention in the Process Industries** Frank Lees, 2005-01-10 Over the last three decades the process industries have grown very rapidly with corresponding increases in the quantities of hazardous materials in process storage or transport Plants have become larger and are often situated in or close to densely populated areas Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough Bhopal Chernobyl Three Mile Island the Phillips 66 incident and Piper Alpha to name but a few The field of Loss Prevention is and continues to be of supreme importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property This book is a detailed guidebook to defending against these and many other hazards It could without exaggeration be referred to as the bible for the process industries This is THE standard reference work for chemical and process engineering safety professionals For years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing reference instead Frank Lees world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world s chief experts in this field Sam Mannan is professor of chemical engineering at Texas A principles practice codes standards data and references needed by those practicing in the field      *Solutions Manual to Accompany Unit Operations of Chemical Engineering, 3d Edition* Warren Lee McCabe, Julian Cleveland Smith, 1976  
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Separation of polymorphs and chiral crystals Micro and macro mixing and the use of computer fluid dynamics Seeding and secondary nucleation in batch crystallization processes Incorporation of upstream and downstream requirements into design procedures for crystallization plant Computer aided molecular design and its use in crystal habit modifier selection Crystallization provides a comprehensive overview of the subject and will prove invaluable to all chemical engineers and industrial chemists in the process industries as well as crystallization workers and students in industry and academia Crystallization is written with the precision and clarity of style that is John Mullin s hallmark a special feature being the large number of appendices that provide relevant physical property data Covers all new developments and trends in crystallization Comprehensive coverage of subject area      **Catalogue for the Academic Year** Naval Postgraduate School (U.S.),1970

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