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# Unit Operations Of Chemical Engineering 7th Edition

**The book is written in a  
practical manner for the**

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**education of B.S.-level  
chemical engineers. It  
introduces students to  
common equipment and  
gives them the basic  
concepts of operation  
both qualitatively and**

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**quantitatively. A solid  
theoretical foundation  
enables students to  
understand basic  
phenomena underlying  
the unit operations but  
real-world applications**

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**are also sufficiently  
covered.**

**Emphasizes the design,  
control and functioning of  
various unit operations -  
offering shortcut  
methods of calculation**

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**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**

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**information.; This book is designed for mechanical, chemical, process design, project, and materials engineers and continuing-education courses in these disciplines.**

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**Solutions Manual to  
Accompany Unit  
Operations of Chemical  
Engineering  
Theory and Practice  
Unit Operations of  
Chemical Engineering**

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**Outlines and Highlights  
for Unit Operations of  
Chemical Engineering by  
Warren McCabe, Isbn**

\*\*\*\*\*Recently Published!\*\*\*\*\* Unit  
Operations of Chemical Engineering,  
7th edition continues its lengthy,



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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

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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

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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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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

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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-

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handling operations and solid-liquid separations. of 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.

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Unit operations of chemical  
engineering

Chemical Engineering Vol 2

**A Practical Approach to Chemical  
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Engineers is aimed at people who**

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**are dealing with chemical engineers or those who are involved in chemical processing plants. The book demystifies complicated chemical engineering concepts through daily life examples and analogies. It contains many illustrations and tables that**



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**facilitate quick and in-depth understanding of the concepts handled in the book. By studying this book, practicing engineers (non-chemical), professionals, technicians and other skilled workers will gain a deeper understanding of what chemical**

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**engineers say and ask for. The book is also useful for engineering students who plan to get into chemical engineering and want to know more on the topic and any related jargon. Provides numerous graphs, images, sketches, tables, help better understanding of**

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**concepts in a visual way Describes complicated chemical engineering concepts by daily life examples and analogies, rather than by formula Includes a virtual tour of an imaginary process plant Explains the majority of units in chemical engineering**

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**techniques, approaches and lessons, in addition to new ideas and strategies in teaching laboratory unit operations to undergraduate chemical engineering students. It is recommended for instructors and students of chemical engineering**

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**Chemical Engineering**

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Experimental Methods and  
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Engineers, Second Edition, touches  
many aspects of engineering  
practice, research, and statistics.  
The principles of unit operations,

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transport phenomena, and plant design constitute the focus of chemical engineering in the latter years of the curricula. Experimental methods and instrumentation is the precursor to these subjects. This resource integrates these concepts

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with statistics and uncertainty analysis to define what is necessary to measure and to control, how precisely and how often. The completely updated second edition is divided into several themes related to data:

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metrology, notions of statistics, and design of experiments. The book then covers basic principles of sensing devices, with a brand new chapter covering force and mass, followed by pressure, temperature, flow rate, and physico-chemical

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properties. It continues with chapters that describe how to measure gas and liquid concentrations, how to characterize solids, and finally a new chapter on spectroscopic techniques such as UV/Vis, IR, XRD, XPS, NMR, and

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XAS. Throughout the book, the author integrates the concepts of uncertainty, along with a historical context and practical examples. A problem solutions manual is available from the author upon request. Includes the basics for 1st

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and 2nd year chemical engineers,  
providing a foundation for unit  
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phenomena Features many  
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chapter Includes up-to-date

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detailed drawings and photos of  
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Examples and Problems to the  
Course of Unit Operations of  
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McCabbe, W.L. Unit Operations of



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The authors have written a  
practical introductory text  
exploring the theory and  
applications of unit

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operations for  
environmental engineers  
that is a comprehensive  
update to Linvil Rich's 1961  
classic work, "Unit  
Operations in Sanitary  
Engineering". The book is

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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

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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

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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

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processes although there are some that include chemical and biological reactions. The unit operations approach allows both the practicing engineer and student to

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compartmentalize the various operations that constitute a process, and emphasizes introductory engineering principles so that the reader can then satisfactorily predict the

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performance of the various unit operation equipment. The field of chemical engineering is in constant evolution, and access to information technology is changing the way chemical



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engineering problems are addressed. Inspired by the need for a user-friendly chemical engineering text that demonstrates the real-world applicability of different computer

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programs, Introduction to  
Software for Chemical  
Engineers acquaints readers  
with the capabilities of  
various general purpose,  
mathematical, process  
modeling and simulation,

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optimization, and specialized software packages, while explaining how to use the software to solve typical problems in fluid mechanics, heat and mass transfer, mass and energy balances,

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unit operations, reactor engineering, and process and equipment design and control. Employing nitric acid production, methanol and ammonia recycle loops, and SO<sub>2</sub> oxidation reactor

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in Chemical Engineering  
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book covers the most important  
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*innovating particle processing technologies and machinery in order to carry out industrial operations. The author explores common bulk solids processing operations, including milling, agglomeration, fluidization, mixing, and solid-fluid separation.*

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new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A

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rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources,

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including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses

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where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant



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essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design Significantly increased coverage of capital cost estimation, process costing and

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economics New chapters on equipment selection, reactor design and solids handling processes New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography Increased coverage of batch processing, food, pharmaceutical

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