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CHEMICAL ENGINEERING SERIES



Unit Operations of Chemical Engineering

SEVENTH EDITION

Solution Manual

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Mark Steyvers

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Water Treatment Unit Processes David W. Hendricks, 2018-10-03 The unit process approach common in the field of chemical engineering was introduced about 1962 to the field of environmental engineering. An understanding of unit processes is the foundation for continued learning and for designing treatment systems. The time is ripe for a new textbook that delineates the role of unit process principles in environmental engineering. Suitable for a two semester course, *Water Treatment Unit Processes Physical and Chemical* provides the grounding in the underlying principles of each unit process that students need in order to link theory to practice. Bridging the gap between scientific principles and engineering practice, the book covers approaches that are common to all unit processes as well as principles that characterize each unit process. Integrating theory into algorithms for practice, Professor Hendricks emphasizes the fundamentals using simple explanations and avoiding models that are too complex mathematically, allowing students to assimilate principles without getting sidelined by excess calculations. Applications of unit processes principles are illustrated by example problems in each chapter. Student problems are provided at the end of each chapter. The solutions manual can be downloaded from the CRC Press Web site. Excel spreadsheets are integrated into the text as tables designated by a CD prefix. Certain spreadsheets illustrate the idea of scenarios that emphasize the idea that design solutions depend upon assumptions and the interactions between design variables. The spreadsheets can be downloaded from the CRC web site. The book has been designed so that each unit process topic is self-contained with sidebars and examples throughout the text. Each chapter has subheadings so that students can scan the pages and identify important topics with little effort. Problems, references, and a glossary are found at the end of each chapter. Most chapters contain downloadable Excel spreadsheets integrated into the text and appendices with additional information. Appendices at the end of the book provide useful reference material on various topics that support the text. This design allows students at different levels to easily navigate through the book and professors to assign pertinent sections in the order they prefer. The book gives your students an understanding of the broader aspects of one of the core areas of the environmental engineering curriculum and knowledge important for the design of treatment systems.

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Books in Print Supplement, 1982 [Advanced Physicochemical Treatment Processes](#) Lawrence K. Wang, Yung-Tse Hung, Nazih K. Shammas, 2007-11-10 The past thirty years have witnessed a growing worldwide desire that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution air, water, soil and noise. Because pollution is a direct or indirect consequence of waste the seemingly idealistic

demand for zero discharge can be construed as an unrealistic demand for zero waste. However as long as waste continues to exist we can only attempt to abate the subsequent pollution by converting it to a less noxious form. Three major questions usually arise when a particular type of pollution has been identified: 1. How serious is the pollution? 2. Is the technology to abate it available? and 3. Do the costs of abatement justify the degree of abatement achieved? This book is one of the volumes of the *Handbook of Environmental Engineering* series. The principal intention of this series is to help readers formulate answers to the last two questions above. The traditional approach of applying tried and true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a methodology of pollution control. However the realization of the ever increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken.

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Introduction to Chemical Engineering Thermodynamics Joseph Mauk

Smith,Hendrick C. Van Ness,1987 Introduction to Chemical Engineering Thermodynamics 6 e presents comprehensive coverage of the subject of thermodynamics from a chemical engineering viewpoint The text provides a thorough exposition of the principles of thermodynamics and details their application to chemical processes The chapters are written in a clear logically organized manner and contain an abundance of realistic problems examples and illustrations to help students understand complex concepts New ideas terms and symbols constantly challenge the readers to think and encourage them to apply this fundamental body of knowledge to the solution of practical problems The comprehensive nature of this book makes it a useful reference both in graduate courses and for professional practice The sixth edition continues to be an excellent tool for teaching the subject of chemical engineering thermodynamics to undergraduate students

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