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introduction to desalination explore the principles methods and applications of  
modern desalination processes introduction to desalination principles  
processes and calculations delivers a comprehensive and robust exploration of  
desalination highlighted with numerous illustrative examples and calculations

the book is divided into three sections the first of which offers an introduction to the topic that includes chapters covering global water scarcity and the need for new water the second section discusses the desalination process including evaporation reverse osmosis crystallization hybrid systems and other potable water processes the final part covers topics that include water conservation environmental considerations of desalination economic impacts of desalination optimization ethics and the future of desalination the book also includes a comprehensive introduction to desalination including discussions of engineering principles the physical chemical and biological properties of water and water chemistry an extensive engineering analysis of the various desalination processes practical discussions of miscellaneous desalination topics including the environmental and economic effects of the technology perfect for process chemical mechanical environmental and civil engineers introduction to desalination principles processes and calculations is also a valuable resource for materials scientists operators and technicians working in the field

a unique and interdisciplinary field food processing must meet basic process engineering considerations such as material and energy balances as well as the more specialized requirements of food acceptance human nutrition and food safety food engineering therefore is a field of major concern to university departments of food science and chemical and biological engineering as well as engineers and scientists working in various food processing industries part of the notable crc press contemporary food engineering series food process engineering operations focuses on the application of chemical engineering unit operations to the handling processing packaging and distribution of food products chapters 1 through 5 open the text with a review of the fundamentals of process engineering and food processing technology with typical examples of food process applications the body of the book then covers food process engineering operations in detail including theory process equipment engineering operations and application examples and problems based on the authors long teaching and research experience both in the us and greece this highly accessible textbook employs simple diagrams to illustrate the mechanism of each operation and the main components of the process equipment it uses simplified calculations requiring only elementary calculus and offers realistic values of food engineering properties taken from the published literature and the authors experience the appendix contains useful engineering data for process calculations such as steam tables engineering properties engineering diagrams and suppliers of process equipment designed as a one or two semester textbook for food science students food process engineering operations examines the applications of process engineering fundamentals to food processing technology making it an important reference for students of chemical and biological engineering interested in food

engineering and for scientists engineers and technologists working in food processing industries

this illustrative reference presents a systematic approach to solving design problems by listing the needed equations calculating degrees of freedom developing calculation procedures to generate process specifications and sizing equipment containing over thirty detailed examples of calculation procedures the book tabulates numerous easy to fol

a complete contemporary account of mass transfer operations at the undergraduate level while mass transfer operations is a required course in every undergraduate chemical engineering program in the world there does not exist a comprehensive text on the subject that is specifically tailored to the undergraduate reader principles and modern applications of mass transfer operations responds to this need providing a thorough accessible text that presents the latest advances in the science as well as sets of targeted questions that challenge students knowledge the focus throughout jaime benitez s peerless study is on making the student consider computation from the start of a mass transfer dilemma twenty five to thirty problems at the end of each chapter ensure that readers will remain actively engaged with the material principles incorporates examples of computational software such as mathcad 2001 matlab r mathematica and aspen graphics and also includes an ftp site that offers problems for each of these software applications as well as a solutions manual chapters encompass fundamentals of mass transfer convective mass transfer interphase mass transfer equipment for gas liquid mass transfer operations absorption and stripping distillation liquid liquid extraction ideal for a first course in mass transfer operations this text will also prove valuable to chemical and environmental engineers researchers and university faculty

introduction to industrial gas cleaning evolved from a set of typewritten class notes for teaching at the university of waterloo which were revised over a period of almost ten years the course is air pollution control throughout the book great care has been taken to define the terms used to explain the physical and chemical principles to state the assumptions made and to go through the mathematical developments in detail this approach to the subject has resulted in a rather rigorous treatment which at the same time is readable

bioseparations engineering is the multidisciplinary application of fundamental engineering and biological principles to the design of absorbents systems and processes for the separation of biological molecules

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