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surveys the selection design and operation of most of the industrially important separation processes discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context features thorough treatment of newer separation processes based on membranes adsorption chromatography ion exchange and chemical complexation includes a review of historically important separation processes such as distillation absorption extraction leaching and crystallization and considers these techniques in light of recent developments affecting them

every practicing environmental engineer should already have a firm grasp on the basics of hazardous waste site remediation the key to confronting a site problem and devising an effective solution since their original introduction to remediation technology has kept moving ahead with new ideas and procedures fundamentals of hazardous waste site remediation gives environmental professionals immediate access to the basics of the trade along with information about recent advancements this comprehensive overview examines the basics of such areas as hazardous materials chemistry hydrogeology reaction engineering and clean up level development a chapter on cost estimating will be of particular interest to specialists in light of recent concerns about the increased costs of remediation after reading each chapter test your new knowledge with the review problems as a refresher guide for career environmental engineers or a helpful tool to newcomers in the field fundamentals of hazardous waste site remediation is a valuable resource for longtime professionals and newcomers alike

providing chemical engineering undergraduate and graduate students with a basic understanding of how separation of a mixture of molecules macromolecules or particles is achieved this textbook is a comprehensive introduction to the engineering science of separation students learn how to apply their knowledge to determine the separation achieved in a given device or process real world examples are taken from biotechnology chemical food petrochemical pharmaceutical and pollution control industries worked examples elementary separator designs and chapter end problems are provided giving students a practical understanding of separation the textbook systematically develops different separation processes by considering the forces causing the separation and how this separation is influenced by the patterns of bulk flow in the separation device readers will be able to take this knowledge and apply it to their own future studies and research in separation and purification online resources include solutions to the exercises and guidance for computer simulations

the subject of transport phenomena has long been thoroughly and expertly addressed on the graduate and theoretical levels now transport phenomena and unit operations a combined approach endeavors not only to introduce the fundamentals of the discipline to a broader undergraduate level audience but also to apply itself to the concerns of practicing engineers as they design analyze and construct industrial equipment richard griskey's innovative text combines the often separated but intimately related disciplines of transport phenomena and unit operations into one cohesive treatment while the latter was an academic precursor to the former undergraduate students are often exposed to one at the expense of the other transport phenomena and unit operations bridges the gap between theory and practice with a focus on advancing the concept of the engineer as practitioner chapters in this comprehensive volume include transport processes and coefficients frictional flow in conduits free and forced convective heat transfer heat exchangers mass transfer molecular diffusion equilibrium staged operations mechanical separations each chapter contains a set of comprehensive problem sets with real world quantitative data affording students the opportunity to test their knowledge in practical situations transport phenomena and unit operations is an ideal text for undergraduate engineering students as well as for engineering professionals

this is a unique book with nearly 1000 problems and 50 case studies on open ended problems in every key topic in chemical engineering that helps to better prepare chemical engineers for the future the term open ended problem basically describes an approach to the solution of a problem and or situation for which there is not a unique solution the introduction to the general subject of open ended problems is followed by 22 chapters each of which addresses a traditional chemical engineering or chemical engineering related topic each of these chapters contain a brief overview of the subject matter of concern e.g. thermodynamics which is followed by sample open ended problems that have been solved by the authors employing one of the many possible approaches to the solutions this is then followed by approximately 40-45 open ended problems with no solutions although many of the authors' solutions are available for those who adopt the book for classroom or training purposes a reference section is included with the chapter's contents term projects comprised of 12 additional chapter topics complement the presentation this book provides academic industrial and research personnel with the material that covers the principles and applications of open ended chemical engineering problems in a thorough and clear manner upon completion of the text the reader should have acquired not only a working knowledge of the principles of chemical engineering but also and more importantly experience in solving open ended problems what many educators have learned is that the applications and implications of open ended problems are not only changing professions but also are moving so fast that many have not yet grasped their tremendous impact the book drives home that the open ended approach will revolutionize the way chemical engineers

will need to operate in the future

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

reference work for chemical and process engineers newest developments advances achievements and methods in various fields

the latest methods for troubleshooting and maintaining process equipment this extensively revised and updated practical resource fully explains how to diagnose troubleshoot and correct problems across a broad range of industries all without complex equations and without ever losing sight of the importance of direct field measurements and observations this fifth edition features new and expanded coverage of causes and effects of wet steam on turbines and strippers distillation design errors and inspecting tower internals setting pressure relief valves on vessels and heat exchangers reduction of flare losses safer procedures for sampling hazardous material taking field measurements safely and effectively filled with real world examples and illustrations a working guide to process equipment fifth edition clearly demonstrates how theory applies to solving real world plant operation problems selected hand calculation methods are also provided comprehensive coverage of distillation towers tower internals trays and packing pumparounds draw off nozzle hydraulics tower pressure control cooling water systems instruments bubble point and dew point vacuum systems surface condensers shell and tube heat exchangers natural and forced circulation reboilers steam strippers steam and condensate systems condensers and air coolers fired

heaters steam generation deaerators and steam systems wastewater strippers steam turbines refrigeration systems catalytic effects centrifugal pumps control valves separators centrifugal compressors and surge reciprocating compressors corrosion fluid flow in pipes super fractionation stage computer control field troubleshooting commentary on need for suppression of co2 emissions

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