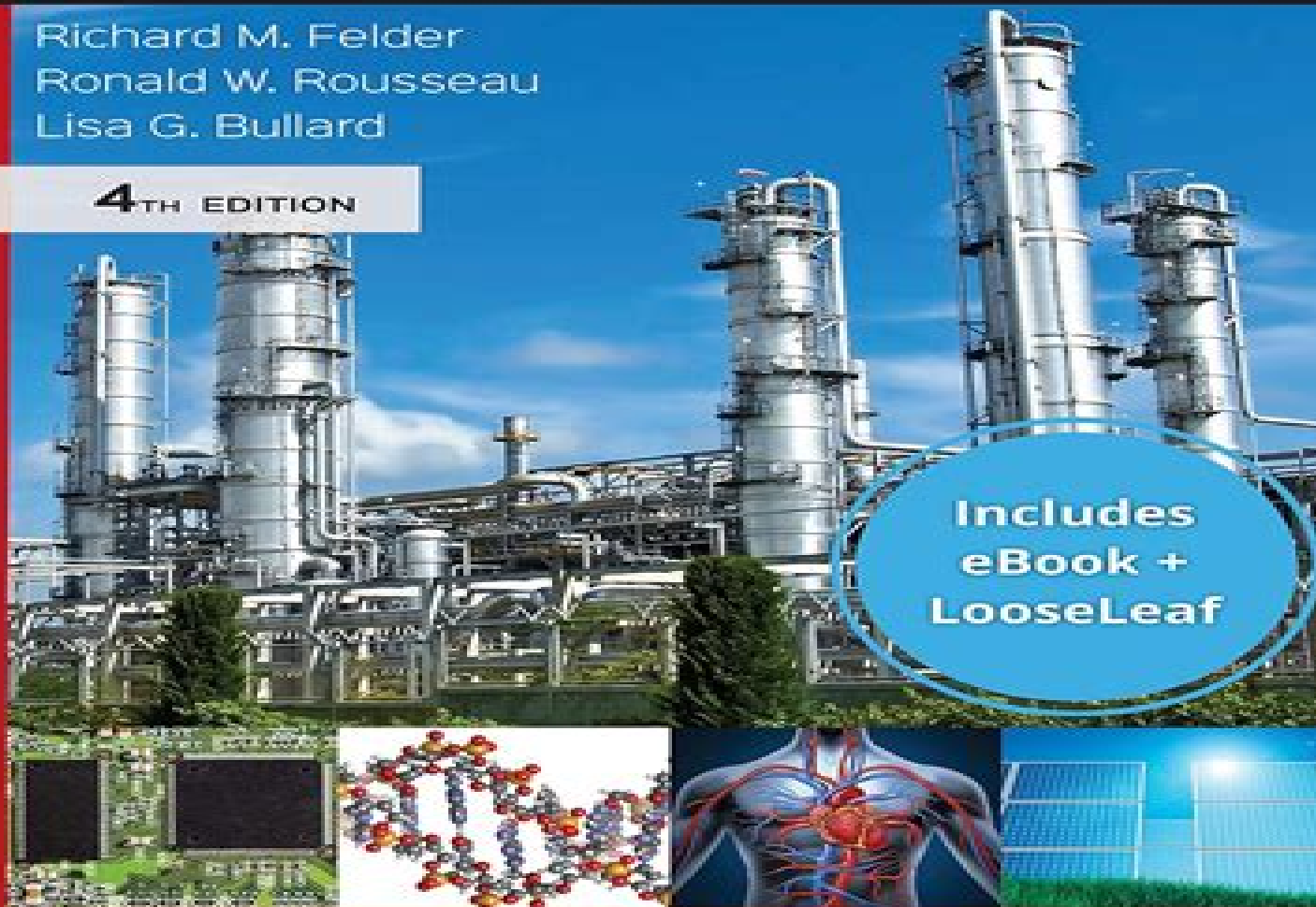


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10th International Symposium on Process Systems Engineering - PSE2009 Rita Maria de Brito Alves,Claudio Augusto Oller do Nascimento,Evaristo Chalbaud Biscaia,2009-08-05 This book contains the proceedings of the 10e of a series of international symposia on process systems engineering PSE initiated in 1982 The special focus of PSE09 is how PSE methods can support sustainable resource systems and emerging technologies in the areas of green engineering Contains fully searchable CD of all printed contributions Focus on sustainable green engineering 9 Plenary papers 21 Keynote lectures by leading experts in the field

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10th International Symposium on Process Systems Engineering Rita Maria de Brito Alves,Cláudio Augusto Oller do Nascimento,Evaristo Chalbaud Biscaia (Jr),2009 The 10th International Symposium on Process Systems Engineering PSE 09 will be held in Salvador Bahia Brazil on August 16 20 2009 The special focus of PSE 2009 is Sustainability Energy and Engineering PSE 2009 is the tenth in the triennial series of international symposia on process systems engineering initiated in 1982 The meeting is brings together the worldwide PSE community of researchers and practitioners who are involved in the creation and application of computing based methodologies for planning design operation control and maintenance of chemical and petrochemical process industries PSE

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*Unit Operations in Environmental Engineering* Louis Theodore, R. Ryan Dupont, Kumar Ganesan, 2017-09-18 The book presents the principles of unit operations as well as the application of these principles to real world problems The authors have written a practical introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich s 1961 classic work Unit Operations in Sanitary Engineering The book is 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 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 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 processes although there are some that include chemical and biological reactions The unit operations approach allows both the practicing engineer and student to compartmentalize the various operations that constitute a process and emphasizes introductory engineering principles so that the reader can then satisfactorily predict the performance of the various unit operations equipment This is a definitive work on Unit Operations one of the most important subjects in environmental engineering today It is an excellent reference well written easily read and comprehensive I believe the book will serve well those working in engineering disciplines including those beyond just environmental and chemical engineering Bottom line A must for any technical library Kenneth J Skipka CCM

**Fundamentals of Environmental Engineering** Danny D. Reible, 1998-10-14 The field of environmental engineering is rapidly emerging into a mainstream engineering discipline For a long time environmental engineering has suffered from the lack of a well defined identity At times the problems faced by environmental engineers require knowledge in many engineering fields including chemical civil sanitary and mechanical engineering Increased demand for undergraduate training in environmental engineering has led to growth in the number of

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engineers In Green Chemistry and Engineering the authors each highly experienced in implementing green chemistry and engineering programs in industrial settings provide the bottom line thinking required to not only bring sustainable chemistry and engineering closer together but to also move business towards more sustainable practices and products Detailing an integrated systems oriented approach that bridges both chemical syntheses and manufacturing processes this invaluable reference covers Green chemistry and green engineering in the movement towards sustainability Designing greener safer chemical synthesis Designing greener safer chemical manufacturing processes Looking beyond current processes to a lifecycle thinking perspective Trends in chemical processing that may lead to more sustainable practices The authors also provide real world examples and exercises to promote further thought and discussion The EPA defines green chemistry as the design of chemical products and processes that reduce or eliminate the use or generation of hazardous substances Green engineering is described as the design commercialization and use of products and processes that are feasible and economical while minimizing both the generation of pollution at the source and the risk to human health and the environment While there is no shortage of books on either discipline Green Chemistry and Engineering is the first to truly integrate the two

**Chemical Engineering Progress** ,2008      **Industrial Burners Handbook** Jr., Charles E. Baukal,2003-10-29 Rapid development in the field precipitated by the increased demand for clean burner systems has made the Industrial Burners Handbook into the fields go to resource With this resource bestselling author editor and combustion expert Charles Baukal Jr has put together a comprehensive reference dedicated to the design and applications of indust      **CHEMICAL PROCESS CALCULATIONS** PRASAD, RAM,2022-04-13 The present textbook is written for undergraduate students of chemical engineering as per the syllabus framed by AICTE curriculum It explains the basic chemical process principles in a lucid manner SI units chemical stoichiometry and measures of composition behaviour of gases vapour pressure of pure substances and humidity and saturation are covered in detail In addition mass and energy balances of chemical processes have also been described Chemical processes without chemical reactions include fluid flow mixing evaporation distillation absorption and stripping liquid liquid extraction leaching and washing adsorption drying crystallization and membrane separation process **SALIENT FEATURES** Description of all concepts and principles with a rich pedagogy for easy understanding Correct use of SI units Over 270 solved examples for understanding the basic concepts Answers to all chapter end numerical problems for checking the accuracy of calculations **TARGET AUDIENCE** BE B Tech Chemical Engineering

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