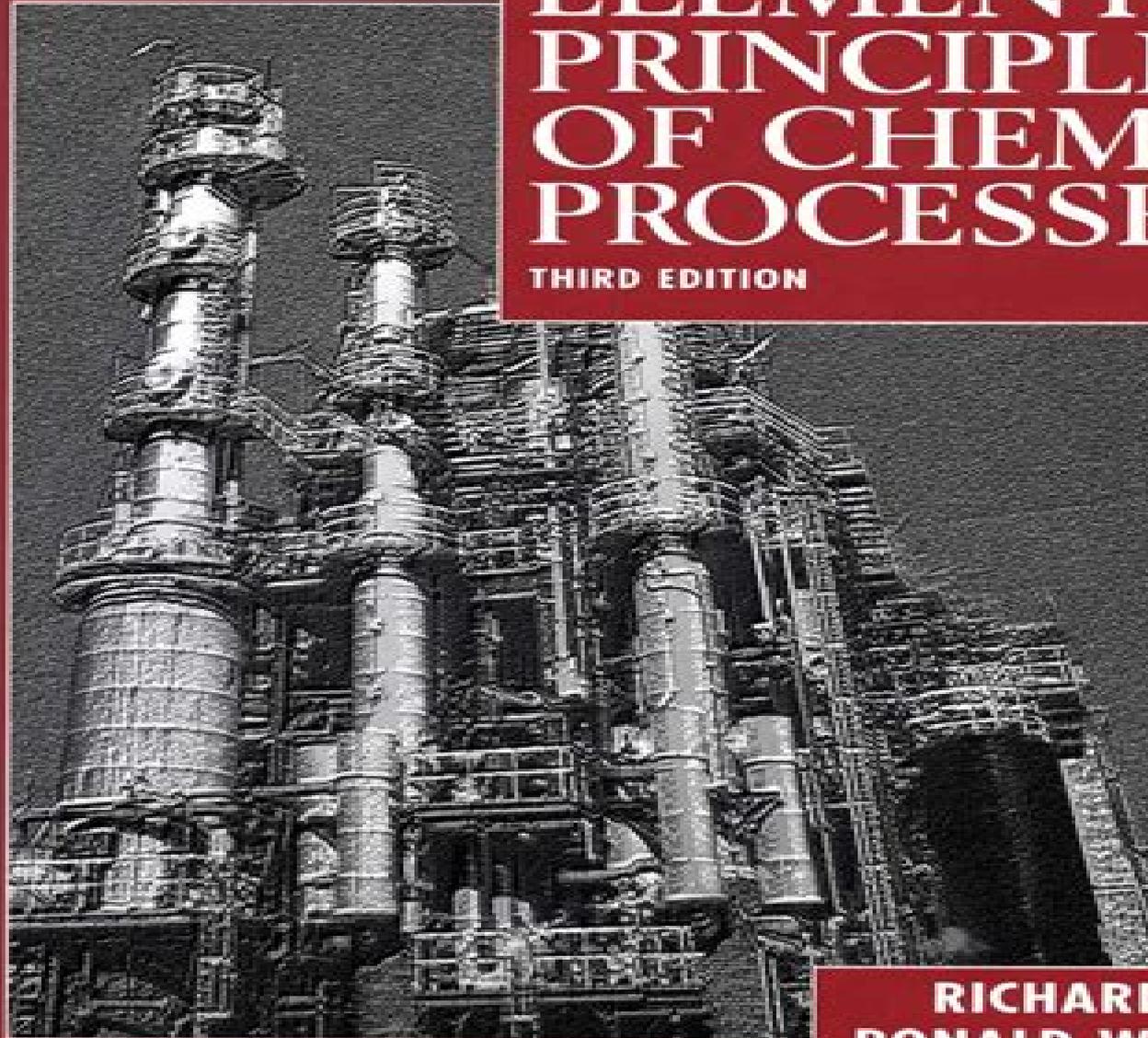


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Felder's Elementary Principles of Chemical Processes, Global Edition Richard M. Felder, Ronald W. Rousseau, Lisa G. Bullard, 2016-08-15 Felder s Elementary Principles of Chemical Processes prepares students to formulate and solve material and energy balances in chemical process systems and lays the foundation for subsequent courses in chemical engineering The text provides a realistic informative and positive introduction to the practice of chemical engineering This classic text has provided generations of aspiring chemical engineers with a solid foundation in the discipline engineering problem analysis material balances and energy balances Richard Felder is a recognized global leader in the field of engineering education and this text embodies a lifetime of study and practice in effective teaching techniques The text is in use at more than 4 out of 5 chemical engineering programs in the US

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breaking each problem down into individual component parts defining the relationships between them and reuniting them in a single solution Providing detailed practical examples with every problem and self test questions at the end of each chapter it uses predominantly SI units in its coverage of theoretical components of an engineering calculation processes and process variables fundamentals of material balances single and multiphase systems energy and energy balances balances on nonreactive processes and more [Physical Principles of Chemical Engineering](#) Peter Grassmann,2013-10-22 Physical Principles of Chemical Engineering covers the significant advancements in the understanding of the physical principles of chemical engineering This book is composed of 12 chapters that describe chemical unit processes through analogy with the unit of operations of chemical engineering The introductory chapters survey the concept and principles of mass and energy balances as well as the application of entropy The next chapters deal with the probability and kinetic theories of gases the physical aspects of solids the different dispersed systems and the principles and application of fluid dynamics Other chapters discuss the property dimension and model theory heat mass and momentum transfer and the characteristics of multiphase flow processes The final chapters review the model of rheological bodies the molecular kinetic interpretations of rheological behavior and the principles of reaction kinetics This book will prove useful to chemical engineers *Elementary Principles of Chemical Processes* Felder, Richard Mark Felder,2009-05-07 **Principles of Chemical Engineering Processes** Nayef Ghasem, Redhouane Henda,2014-11-10 This book introduces the basic principles and calculation techniques used in chemical engineering It discusses problems in material and energy balances related to chemical reactors explains the concepts of dimensions units psychrometry steam properties and conservation of mass and energy and demonstrates how MATLAB and Simulink can be used to solve complicated problems This Second Edition contains additional homework problems and a new chapter related to single and multiphase systems Educational software downloadable exercises and a solutions manual are available with qualifying course adoption *Principles of Chemical Engineering Processes* Nayef Ghasem, Redhouane Henda,2008-09-19 Written in a clear concise style Principles of Chemical Engineering Processes provides an introduction to the basic principles and calculation techniques that are fundamental to the field The text focuses on problems in material and energy balances in relation to chemical reactors and introduces software that employs numerical methods to solve t

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Chemical Engineering Principles and Applications Nuggenhalli S. Nandagopal, 2023-05-16 This text provides a clear and concise understanding of the principles and applications of chemical engineering using a rigorous yet easy to follow presentation The coverage is broad and it includes all the relevant concepts such as mass and energy balances mass transfer chemical reaction engineering and many more Elucidation of the principles is further reinforced by examples and practice problems with detailed solutions Firmly grounded in the fundamentals the

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