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A brand new book, FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS makes the abstract subject of chemical engineering thermodynamics more accessible to undergraduate students. The subject is presented through a problem-solving inductive (from specific to general) learning approach, written in a conversational and approachable manner. Suitable for either a one-semester course or two-semester sequence in the subject, this book covers thermodynamics in a complete and mathematically rigorous manner, with an emphasis on solving practical

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engineering problems. The approach taken stresses problem-solving, and draws from best practice engineering teaching strategies. FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS uses examples to frame the importance of the material. Each topic begins with a motivational example that is investigated in context to that topic. This framing of the material is helpful to all readers, particularly to global learners who require big picture insights, and hands-on learners who struggle with abstractions. Each worked example is fully annotated with sketches and comments on the thought process behind the solved problems. Common errors are presented and explained. Extensive margin notes add to the book accessibility as well as presenting opportunities for investigation. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book highlights the various topics in which luminescence and electrochemistry are intimately coupled. The topic of this book is clearly at the frontier between several scientific domains involving physics, chemistry and biology. Applications in these various fields naturally also need to be mentioned, especially concerning displays and advanced investigation techniques in analytical chemistry or for biomedical issues.

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Volume 2 of the Textbook of Neural Repair and Rehabilitation stands alone as a clinical handbook for neurorehabilitation.

Engineering Analysis with ANSYS Software, Second Edition, provides a comprehensive introduction to fundamental areas of engineering analysis needed for research or commercial engineering projects. The book introduces the principles of the finite element method, presents an overview of ANSYS technologies, then covers key application areas in detail. This new edition updates the latest version of ANSYS, describes how to use FLUENT for CFD FEA, and includes more worked examples. With detailed step-by-step explanations and sample problems, this book develops the reader's understanding of FEA and their ability to use ANSYS software tools to solve a range of analysis problems. Uses detailed and clear step-by-step instructions, worked examples and screen-by-screen illustrative problems to reinforce learning Updates the latest version of ANSYS, using FLUENT instead of FLOWTRAN Includes instructions for use of WORKBENCH Features additional worked examples to show engineering analysis in a broader range of practical engineering applications

This book reviews the current knowledge on tunable hydrogels,

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including the range of different materials and applications, as well as the existing challenges and limitations in the field. It covers various aspects of the material design, particularly highlighting biological responsiveness, degradability and responsiveness to external stimuli. In this book, readers will discover original research data and state-of-the-art reviews in the area of hydrogel technology, with a specific focus on biotechnology and medicine. Written by leading experts, the contributions outline strategies for designing tunable hydrogels and offer a detailed evaluation of the physical and synthetic methods currently employed to achieve specific hydrogel properties and responsiveness. This highly informative book provides important theoretical and practical insights for scholars and researchers working with hydrogels for biomedical and biotechnological applications.

The world is being transformed physically and politically. Technology is the handmaiden of much of this change. But since the current sweep of global change is transforming the face of warfare, Special Operations Forces (SOF) must adapt to these circumstances. Fortunately, adaptation is in the SOF DNA. This book examines the changes affecting SOF and offers possible solutions to the complexities that are challenging many long-held assumptions. The

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chapters explore what has changed, what stays the same, and what it all means for U.S. SOF. The authors are a mix of leading experts in technology, business, policy, intelligence, and geopolitics, partnered with experienced special operators who either cowrote the chapters or reviewed them to ensure accuracy and relevance for SOF. Our goal is to provide insights into the changes around us and generate ideas about how SOF can adapt and succeed in the emerging operational environment.

This text is a primer for liquid crystals, polymers, rubber and elasticity. It is directed at physicists, chemists, material scientists, engineers and applied mathematicians at the graduate student level and beyond.

Chemical Reactor Modeling closes the gap between Chemical Reaction Engineering and Fluid Mechanics. The second edition consists of two volumes: Volume 1: Fundamentals. Volume 2: Chemical Engineering Applications In volume 1 most of the fundamental theory is presented. A few numerical model simulation application examples are given to elucidate the link between theory and applications. In volume 2 the chemical reactor equipment to be modeled are described. Several

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engineering models are introduced and discussed. A survey of the frequently used numerical methods, algorithms and schemes is provided. A few practical engineering applications of the modeling tools are presented and discussed. The working principles of several experimental techniques employed in order to get data for model validation are outlined. The monograph is based on lectures regularly taught in the fourth and fifth years graduate courses in transport phenomena and chemical reactor modeling and in a post graduate course in modern reactor modeling at the Norwegian University of Science and Technology, Department of Chemical Engineering, Trondheim, Norway. The objective of the book is to present the fundamentals of the single-fluid and multi-fluid models for the analysis of single and multiphase reactive flows in chemical reactors with a chemical reactor engineering rather than mathematical bias. Organized into 13 chapters, it combines theoretical aspects and practical applications and covers some of the recent research in several areas of chemical reactor engineering. This book contains a survey of the modern literature in the field of chemical reactor modeling.

The title is a perfect description. Arranged alphabetically this book explains the words and phrases that crop up in thermodynamics. The author does this without resorting to pages of mathematics and

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algebra: the author's main aim is to explain and clarify the jargon and concepts. Thermodynamics is often difficult and confusing for students. The author knows this after 20 years of teaching and does something about it with this dictionary.

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