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Thermodynamics and Energy Conversion Principles Kaushal Dhawan, 2025-02-20 Thermodynamics and Energy Conversion Principles is a comprehensive guide to understanding how energy transforms from one form to another. Crafted by experts in physics, engineering, and related fields, this book covers both fundamental principles and practical applications of energy conversion. We start with the basics of thermodynamics, explaining concepts such as energy, work, and temperature, before delving into the core laws of thermodynamics that govern energy behavior. Beyond theory, we explore real-world applications like power plants, refrigerators, and heat engines, discussing various cycles such as the Rankine cycle used in steam power plants and analyzing their efficiency. Modern advancements in energy conversion, including renewable sources like solar and wind power, are also covered. We address challenges like energy storage and efficient energy use, providing a strong foundation for understanding and solving global issues like climate change. Thermodynamics and Energy Conversion Principles is an invaluable resource for students, researchers, and anyone interested in how energy is converted and utilized in our world. It combines theoretical knowledge with practical insights to foster sustainable energy solutions.

Calcium-Based Materials S.S. Nanda, Jitendra Pal Singh, Sanjeev Gautam, Dong Kee Yi, 2024-05-15 Calcium-based natural minerals are important for a wide range of applications. Though these materials are available in nature, researchers are working toward developing them in the laboratory. Calcium-Based Materials: Processing, Characterization, and Applications introduces the possibility of designing these materials for particular applications. It introduces a variety of calcium-based materials and discusses synthesis, growth, and stability. It provides in-depth coverage of calcium carbonate, discusses applications of calcium-based minerals in different fields, includes details on synchrotron X-ray tools for case minerals. This comprehensive text is aimed at researchers in materials science, engineering, and bioengineering.

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Biological Crystallization Jaime Gómez Morales,2019-09-23 For at least six hundred million years life has been a fascinating laboratory of crystallization referred to as biomineralization During this huge lapse of time many organisms from diverse phyla have developed the capability to precipitate various types of minerals exploring distinctive pathways for building sophisticated structural architectures for different purposes The Darwinian exploration was performed by trial and error but the success in terms of complexity and efficiency is evident Understanding the strategies that those organisms employ for regulating the nucleation growth and assembly of nanocrystals to build these sophisticated devices is an intellectual challenge and a source of inspiration in fields as diverse as materials science nanotechnology and biomedicine However Biological Crystallization is a broader topic that includes biomineralization but also the laboratory crystallization of biological compounds such as macromolecules carbohydrates or lipids and the synthesis and fabrication of biomimetic materials by different routes This Special Issue collects 15 contributions ranging from biological and biomimetic crystallization of calcium carbonate calcium phosphate and silica carbonate self assembled materials to the crystallization of biological macromolecules Special attention has been paid to the fundamental phenomena of crystallization nucleation and growth and the applications of the crystals in biomedicine environment and materials science

Handbook on Material and Energy Balance Calculations in Material Processing Arthur E. Morris,Gordon Geiger,H. Alan Fine,2012-01-03 Lately there has been a renewed push to minimize the waste of materials and energy that accompany the production and processing of various materials This third edition of this reference emphasizes the fundamental principles of the conservation of mass and energy and their consequences as they relate to materials and energy New to this edition are numerous worked examples illustrating conventional and novel problem solving techniques in applications such as semiconductor processing environmental engineering the production and processing of advanced and exotic materials for aerospace electronic and structural applications

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