

Chemistry, Material, Life & Earth Sciences

September to December 2025



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Green Analytical Chemistry: Concepts and Applications

Chaudhery Mustansar Hussain, Arpana Agrawal, Rustem Kedli, Chaudhery Ghazanfar Hussain

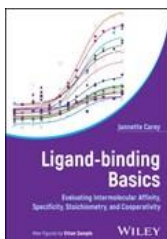
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Deborah A. Peru

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Ligand-Binding Basics: Evaluating Intermolecular Affinity, Specificity, Stoichiometry, and Cooperativity

Jannette Carey

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In *Ligand-binding Basics: Evaluating Intermolecular Affinity, Specificity, Stoichiometry, and Cooperativity*, accomplished chemist Jannette Carey introduces ligand binding in a thorough and practical way for those new to the topic, as well as anyone seeking a connection between theory and experiment. Using a minimum of mathematical formalism, this book offers analytical rigor

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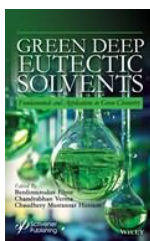
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Franklin Tao

Sustainably tap one of the world's most abundant natural resources with this essential guide

Methane is among our crucial natural resources, with myriad applications both domestic and industrial. Atmospheric accumulation of methane, however, is one of the major drivers of climate change. The increasingly urgent search for a sustainable world demands methods for the transformation of methane that maximize its potential as a source of energy and chemical production without a harmful effect on the atmosphere and local

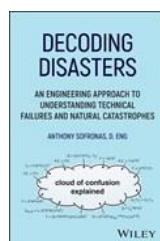
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Green Deep Eutectic Solvents

Elyor Berdimurodov, Chandrabhan Verma, Chaudhery Mustansar Hussain

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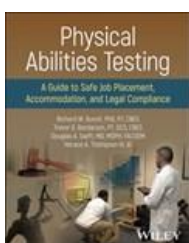
Decoding Disasters: An Engineering Approach to Understanding Technical Failures and Natural Catastrophes

Anthony Sofronas

Understanding failures and disasters using case studies and simple engineering techniques

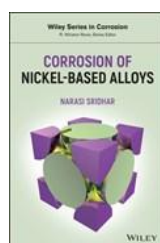
Decoding Disasters provides illustrated failure case histories on a multitude of technologies and shows how engineering analysis can explain and help professionals understand them. For each case, the analysis technique is included so that the reader can adapt and apply it to their own situation. Different techniques are developed to show how the methods can be applied in various disciplines. This book guides readers to determine what likely occurred in

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Corrosion of Nickel-Based Alloys

Narasi Sridhar

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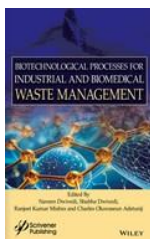
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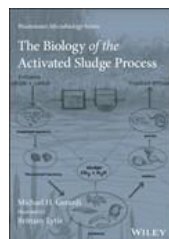
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Naveen Dwivedi, Shubha Dwivedi, Ranjeet Kumar Mishra, Charles Oluwaseun Adetunji



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Michael H. Gerardi

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Troubleshooting from a biological and chemical view of the activated sludge process is different from traditional engineering approaches for troubleshooting. The approach reflects the biological nature of the activated sludge process and how its success or failure is determined by the biochemical reactions that occur in the microorganisms, specifically the bacteria. This book provides wastewater operators with simplistic, reliable and inexpensive tests and parameters that can be used to quickly identify and correct operational problems associated with the activated sludge process (ASP). Usin...

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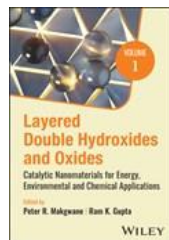
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Jean-Didier Maréchal

An in-depth overview of what computation can do in bioinorganic chemistry, written for experimentalists and theoreticians working at the interface between chemistry and biology

Until recently, the field of computational bioinorganics has been governed by the application of quantum mechanical approaches. The emergence of metal-related biomolecular fields and increased computational capabilities have enabled the development of novel artificial metalloenzymes, new metallodrugs strategies, and advanced biosensor technologies.



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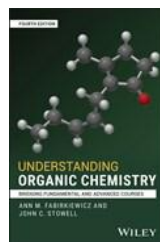
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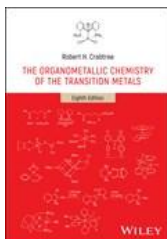
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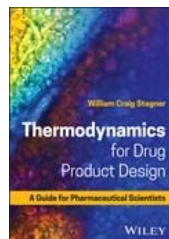
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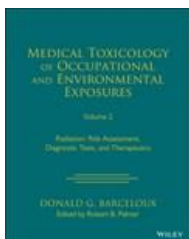
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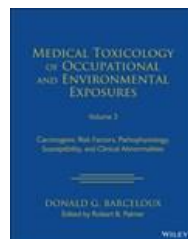


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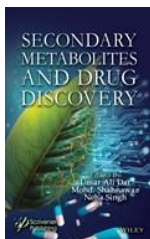


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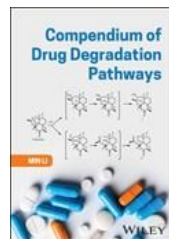
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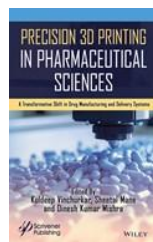
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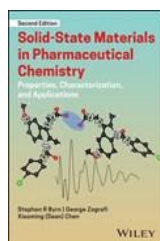
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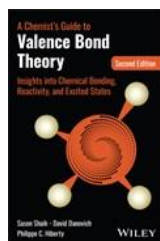
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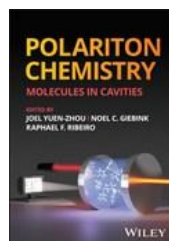
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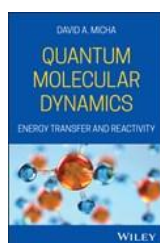
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Understand the emerging field of polariton chemistry with this accessible introduction

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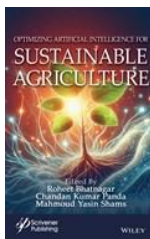
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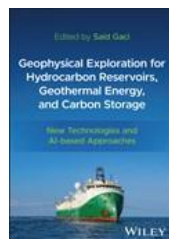
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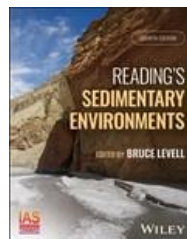
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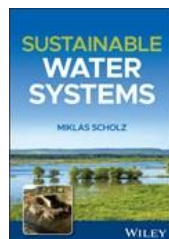
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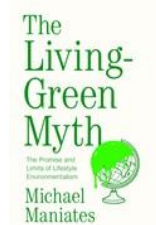
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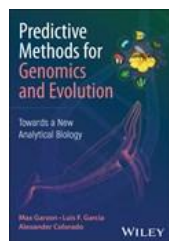
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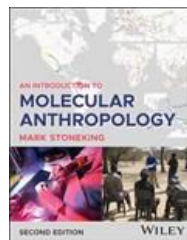
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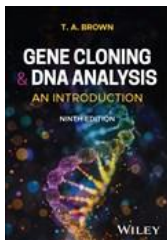


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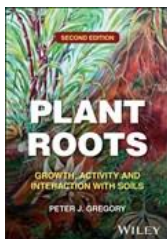
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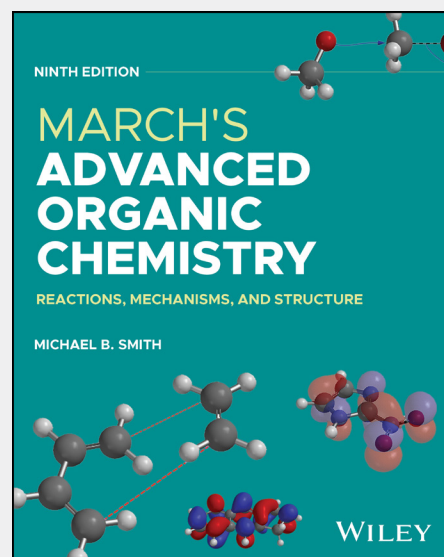
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