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interfacial science: an introduction



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Interfacial Science An Introduction

John C. Berg



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Colloids and Interfaces in Life Sciences and Bionanotechnology Willem Norde, 2011-06-06 Colloidal systems occur everywhere in soils seawater foodstuff pharmaceuticals paints blood biological cells and microorganisms Colloids and Interfaces in Life Sciences and Bionanotechnology Second Edition gives a concise treatment of physicochemical principles determining interrelated colloidal and interfacial phenomena New in the

Introduction to Interfaces and Colloids, An: The Bridge to Nanoscience (Second Edition) John C Berg, 2024-05-16 This textbook seeks to bring readers with no prior knowledge or experience in interfacial phenomena colloid science or nanoscience to the point where they can comfortably enter the current scientific and technical literature in the area Designed as a pedagogical tool this textbook recognizes the cross disciplinary nature of the subject To facilitate learning the topics are developed from the beginning with ample cross referencing The understanding of concepts is enhanced by clear descriptions of experiments and provisions of figures and illustrations

Iron Oxide-Based Nanocomposites and Nanoenzymes Harekrushna Sahoo, Jitendra Kumar Sahoo, 2024-01-01 This contributed volume provides a comprehensive understanding of synthetic protocols characterization techniques and current applications of iron oxide based nanocomposite and nanoenzyme materials It covers basic concepts and recent advancements in iron oxide based nanocomposites and nanoenzymes focusing on their synthesis characterization and functionalization for specific research applications The different chapters in the book highlight key characterization techniques including Fourier Transform Infrared Spectroscopy X ray diffraction Scanning Electron Microscopy and Transmission Electron Microscopy among others while it also explores various applications of these materials such as adsorption of heavy metals and dyes gas sensors biomedical applications photo catalysis and photovoltaic sensors This book serves as a valuable resource for researchers and graduate students working in the fields of materials science chemistry physics and biotechnology

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Cristina Sabliov, Hongda Chen, Rickey Yada, 2015-04-21 The continued advancement in the sciences of functional foods and nutraceuticals has clearly established a strong correlation between consumption of bioactives and improved human health and performance. However, the efficacy and bioavailability of these bioactive ingredients (e.g., omega-3 oils, carotenoids, antioxidants, vitamins, and probiotic bacteria) in foods often remains a challenge due to their instability in food products and the gastrointestinal tract, as well as their limited bioavailability. In some cases, these bioactive ingredients may impart an undesirable organoleptic characteristic to the final product, which hinders acceptance by consumers. In addressing these challenges, development of effective delivery systems is critical to meet the consumer needs for effective bioactives. The scientific knowledge behind developing effective delivery of bioactive components into modern and wide-ranging food products will be essential to reap their health-promoting benefits and to support the sustained growth of the functional foods market.

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Food Process Engineering Principles and Data Michael Lewis, 2022-11-18 *Food Process Engineering Principles and Data* provides an overview of topics surrounding safety and quality in processing foods. The book covers a range of physical properties of foods, providing background information on the physical, chemical, and engineering properties of foods to ensure food safety and perform engineering calculations. Chapters are self-contained with comprehensive charts of food properties, making this unique a great reference for scientists who need a single, handy source of information. Written by an authority on the physical properties of foods and food engineering, this book is ideal for food scientists, technologists, manufacturers, and processors. In addition, chemical engineers and biotechnologists will also benefit from the content of this comprehensive title. Thoroughly explores a collection of data on the physical properties of foods and food processing systems. Presents background information on the chemical, physical, and engineering properties of foods. Includes comprehensive charts with data on food properties.

[Computational Methods for Complex Liquid-Fluid Interfaces](#) Mohammad Taeibi Rahni, Mohsen Karbaschi, Reinhard Miller, 2015-11-11 *Computational Methods for Complex Liquid-Fluid Interfaces* highlights key computational challenges involved in the two-way coupling of complex liquid-fluid interfaces. The book covers a variety of cutting-edge experimental and computational techniques ranging from macro to meso and microscale approaches, including pivotal applications. As example **The**

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Membranes and Their Interaction with Cholera Toxin Chad Edward Miller,2005 *Proceedings of the Royal Society. Section*
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