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# interfacial science: an introduction



SECOND EDITION

G. T. Barnes & I. R. Gentle

# Interfacial Science An Introduction

**Willem Norde**



## **Interfacial Science An Introduction:**

**Interfacial Science: An Introduction** Geoffrey Barnes, Ian Gentle, 2011-02-10 Interfacial Science An Introduction is an accessible text introducing readers to the chemistry of interfaces a subject of increasing relevance and popularity due to the emergence of nanoscience *An Introduction to Interfaces & Colloids* John C. Berg, 2010 Offers an introduction to the topics in interfacial phenomena colloid science or nanoscience Designed as a pedagogical tool this book recognizes the cross disciplinary nature of the subject It features descriptions of experiments and contains figures and illustrations that enhance the understanding of concepts **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 *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 *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 [Introduction to Interfaces and Colloids, An: the Bridge to Nanoscience](#) John C. Berg, 2009 The 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 book 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. Publisher's website: **Nanotechnology and Functional Foods** 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, carotenoid antioxidants, vitamins, and probiotic bacteria in foods, often remains a challenge due to their instability in food products and 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. **Nanotechnology and Functional Foods: Effective Delivery of Bioactive Ingredients** explores the current data on all aspects of nanoscale packing, carrying, and delivery mechanisms of bioactive ingredients to functional foods. The book presents various delivery systems, including nano-emulsions, solid lipid nanoparticles, and polymeric nanoparticles, their properties, and interactions with other food components and fate in the human body. Later chapters emphasize the importance of consumers' attitude towards nano-delivery for the success of the technology and investigate the challenges faced by regulatory agencies to control risks and harmonize approaches worldwide. The wide applicability of bioactive delivery systems with the purpose of improving food quality, food safety, and human health will make this book a worthy reference for a diverse range of readers in industry, research, and academia. **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 an example, **Fundamentals of Interface and Colloid Science** J. Lyklema, 1991. This volume sets out the physical-chemical concepts behind interface and colloid science. *Developing Chemical Tools for the Study of Glycoproteins* David I. Rabuka, 2008. **Interface Science and Engineering '87** Rishi Raj, S. L. Sass, 1988. *The British National Bibliography* Arthur James Wells, 2005. **Journal of the Chemical Society**, 1992. *The American Journal of Science*, 1929. **Science Abstracts**, 1917. *Engineering Abstracts from the Current Periodical Literature of Engineering and Applied Science, Published Outside the United Kingdom*

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