



# Interfacial Science: An Introduction

By Geoffrey Barnes, Ian Gentle

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## Interfacial Science: An Introduction By Geoffrey Barnes, Ian Gentle

Interfacial science impacts on our lives in diverse and surprising ways. Without it, we would face bubble bath without the bubbles, detergents which don't clean, cappuccinos without the froth. It has also fuelled some of the most ground-breaking and thought-provoking advances in research in the last decade, from biosciences to nanotechnology.

*Interfacial Science: An Introduction* offers an engaging insight into the study of the physical and chemical properties of interfaces, how they behave, why they behave as they do, and how this behaviour can be harnessed and exploited.

Opening with an overview of the key principles of capillarity and adsorption, the book goes on to explore liquid/gas, solid/gas, and liquid/liquid interfaces, before examining biological interfaces, one of the most stimulating areas of current research. With the careful explanation of essential mathematical and physical concepts, and description of real world applications of the material presented, the book helps the student to build confidence in, and see the relevance of, the topics covered.

Striking a careful balance between the highly mathematical treatments of the subject by more specialist texts, and the rudimentary treatment offered by general physical chemistry texts, *Interfacial Science: An Introduction* offers a breadth and depth of treatment which is perfect for any advanced undergraduate course on this exciting, dynamic subject.

## Companion Web Site

- Figures from the book available to download, to facilitate lecture preparation
- Solutions to end-of-chapter problems, to speed up assessment marking, or to support student self-learning

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## **Editorial Review**

### **Review**

The knowledge of physical chemistry included particularly in Chapter I (Introduction), Chapter III (Adsorption and thermodynamics of surfaces), Chapter V (Insoluble monolayers and L-B films) is presented clearly and understandable. Lots of references have been provided at the end of each chapter and they are very useful especially for lecture preparation. It is the best book I have ever read. Barbara Urasinska-Wojcik, Bangor University A very well written account of the main aspects of interfacial science. Chemistry World

### **About the Author**

**Dr Geoffrey Barnes** is an Honorary Research Consultant and **Dr Ian Gentle** is a Reader in Chemistry, both at the University of Queensland, Australia.

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This Interfacial Science: An Introduction book is just not ordinary book, you have after that it the world is in your hands. The benefit you get by reading this book is usually information inside this book incredible fresh, you will get facts which is getting deeper an individual read a lot of information you will get. This Interfacial Science: An Introduction without we comprehend teach the one who examining it become critical in contemplating and analyzing. Don't end up being worry Interfacial Science: An Introduction can bring any time you are and not make your bag space or bookshelves' grow to be full because you can have it inside your lovely laptop even cellphone. This Interfacial Science: An Introduction having good arrangement in word and layout, so you will not really feel uninterested in reading.

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