



Interfacial Science: An Introduction

Geoffrey Barnes, Ian Gentle

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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
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