

Fundamentals of Interface and Colloid Science



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出版者:Academic Press

出版时间:1991-02-11

装帧:Hardcover

isbn:9780124605251

This volume sets out the fundamental physical chemical concepts behind interface and colloid science. Starting from elementary principles, including those of classical thermodynamics and intermolecular interaction, it gradually progresses to more advanced topics such as partition functions and stochastic processes. Relevant mathematical techniques are explained in appendices. All that is required of the reader is a basic knowledge of physical chemistry, and research workers and graduates interested in colloid and interface science will welcome the wide ranging knowledge presented by the author and a team of experts. The discussions of many applications make the book of particular interest to those involved in practical research. It provides a general physical chemical background to interface and colloid science. It explains and elaborates phenomena starting from basic principles and progresses to more advanced topics; and includes classical thermodynamics and the description of intermolecular interactions, partition functions, stochastic processes and dynamic light scattering. Required mathematical techniques are described in appendices.

作者介绍:

目录:

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