



## Physicochemical Hydrodynamics: An Introduction (Butterworths series in chemical engineering)

Ronald F. Probstein

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Physicochemical Hydrodynamics: An Introduction aims to provide an introduction to physicochemical hydrodynamics (PCH), which deals with the interaction between fluid flow and physical, chemical, and biochemical processes. PCH has applications in many areas of science and technology and is a rapidly expanding field.

Emphasis of this book is on rational theory and its consequences, with the purpose of showing the underlying unity of PCH, in which diverse phenomena can be described in physically and mathematically similar ways. The magic of this unity is shown in the similar manner in which solutes concentrate in a flow containing chemically reacting surfaces, reverse osmosis membranes, and electrodialysis membranes or the similarity of particle motions in sedimentation, centrifugation, ultrafiltration, and electrophoresis.

Problems are included at the end of each chapter and are ordered following the sequence in which the material is set out. The questions range in difficulty, with most requiring an analytic development, but with some asking only for a descriptive answer. All problems are intended to illustrate the ideas presented, though often the solution goes beyond the explicit discussion in the book, with the answer constituting a generalization or extension of the text material.

This book is an essential source of information for students majoring in the field of PCH.



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