



Molecular Reaction Dynamics

By Raphael D. Levine

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Molecular reaction dynamics is the study of chemical and physical transformations of matter at the molecular level. The understanding of how chemical reactions occur and how to control them is fundamental to chemists and interdisciplinary areas such as materials and nanoscience, rational drug design, environmental and astrochemistry. This book provides a thorough foundation to this area. The first half is introductory, detailing experimental techniques for initiating and probing reaction dynamics and the essential insights that have been gained. The second part explores key areas including photoselective chemistry, stereochemistry, chemical reactions in real time and chemical reaction dynamics in solutions and interfaces. Typical of the new challenges are molecular machines, enzyme action and molecular control. With problem sets included, this book is suitable for advanced undergraduate and graduate students, as well as being supplementary to chemical kinetics, physical chemistry, biophysics and materials science courses, and as a primer for practising scientists.

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Editorial Review

Review

"Extremely well written, the definitive work in the field, and it provides a wonderful overview of current understanding of how chemical reactions occur, including insights into what still remains to be done. Essential." CHOICE

About the Author

Born March 29, 1938, Raphael Levine is Professor of Chemistry at the University of California, Los Angeles and Max Born Professor of Natural Philosophy at The Hebrew University of Jerusalem. He is renowned in the area of chemical reaction dynamics and his published scientific work has earned the recognition of the Israel Prize and the Wolf Prize. He is a member of the Israel National Academy of Sciences and a foreign member of the National Academy of Sciences of the United States of Academia Europaea.

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