



Physical Chemistry (Topics in Physical Chemistry)

By R. Stephen Berry, Stuart A. Rice, John Ross

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Every chemist should own a copy of this uniquely thorough yet incisive treatment of the basic principles of physical chemistry. Written by three eminent physical chemists, the second edition of this exceptional work is the most lucid and comprehensive physical chemistry reference available. The authors present the fundamentals of the three major areas of physical chemistry--the microscopic structure of matter, the equilibrium properties of systems, and the physical and chemical kinetics of transformations of systems--in a logical sequence, from the simple to the complex. Beginning with atomic and molecular structure, they progress to properties of condensed matter, to statistical and thermodynamic properties of systems in equilibrium, and then to transport phenomena and chemical reaction processes. The book's mathematical level begins with elementary calculus and rises to the use of simple properties of partial differential equations and the special functions that enter into their solutions. The conceptual structure of physical chemistry is emphasized throughout and appendices develop the details of the mathematical tools as they are needed.

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- In-depth and illuminating presentation of conceptual arguments
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- Many updates throughout
- Several vignettes--written by leaders in the field--that cover topics at the cutting edge of physical chemistry research

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Editorial Review

Review

"I find the progression from microscopic to macroscopic more effective than following the chronological advancement of physical chemistry. In fact, students usually do very well when they start our current, and traditional, sequence midway. The vignettes are very well done and exciting."--Preston J. MacDougall, Middle Tennessee State University

"This is a well-written, logically-developed presentation of physical chemistry. It presents quantum chemistry first, as I believe should be done. It continues to be (in its new edition) the most demanding book in the field. Most of our undergraduates would find it too difficult, but it might be appropriate for our graduate students."--Hal Harris, University of Missouri, St. Louis

About the Author

R. Stephen Berry and Stuart A. Rice are both at University of Chicago. John Ross is at Stanford University.

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