



Physical Chemistry: A Molecular Approach

By Donald A. McQuarrie, John D. Simon

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As the first modern physical chemistry textbook to cover quantum mechanics before thermodynamics and kinetics, this book provides a contemporary approach to the study of physical chemistry. By beginning with quantum chemistry, students will learn the fundamental principles upon which all modern physical chemistry is built. The text includes a special set of "MathChapters" to review and summarize the mathematical tools required to master the material. Thermodynamics is simultaneously taught from a bulk and microscopic viewpoint that enables the student to understand how bulk properties of materials are related to the properties of individual constituent molecules. This new text includes a variety of modern research topics in physical chemistry as well as hundreds of worked problems and examples.

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Editorial Review

Review

Pedagogically pleasing, as it builds up physical chemistry from considerations of atoms to systems containing numerous molecules. --Choice

It is a superb book, to be greatly appreciated and treasured by generations of students to come. --Richard Zare, Stanford University

An excellent modern physical chemistry course that should inspire us to rethink our curriculum. --Journal of Chemical Education

About the Author

As the author of landmark chemistry books and textbooks, Donald McQuarrie's name is synonymous with excellence in chemical education. From his classic text on Statistical Mechanics to his recent quantum-first tour de force on Physical Chemistry, McQuarrie's best selling textbooks are highly acclaimed by the chemistry community. McQuarrie received his PhD from the University of Oregon, and is Professor Emeritus from the Department of Chemistry at the University of California, Davis. He makes his home at The Sea Ranch in California with his wife Carole, where he continues to write.

John D. Simon became the first George B. Geller Professor of Chemistry at Duke University in 1998. He is currently Chair Chemistry Department at Duke and a faculty member of the Biochemistry, and Ophthalmology Departments of the Duke Medical Center. John graduated from Williams College in 1979 with a B.A. in Chemistry and received his Ph.D. from Harvard University in 1983. After a postdoctoral fellowship with Professor Mostafa El-Sayed at UCLA, John joined the faculty of the Department of Chemistry at UCSD in 1985.

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