



Thermodynamics and Kinetics for the Biological Sciences

Gordon G. Hammes

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Gain a working knowledge of thermodynamics and kinetics with a minimum of mathematics—a guide for individuals in the biological sciences

An understanding of thermodynamics and kinetics is essential for researchers investigating molecular phenomena in diverse disciplines, including bioorganic chemistry, medicinal chemistry, biochemistry, pharmaceuticals, and biology. The use of these physical chemistry tools in the biological sciences has exploded over the past fifteen years, but the majority of works on thermodynamics and kinetics require mathematical expertise beyond that of many researchers in the field. Presenting a highly accessible introduction to thermodynamics and kinetics, *Thermodynamics and Kinetics for the Biological Sciences* employs a minimum of mathematics, assuming only a basic calculus background, while treating a wide range of topics in a logical and easy-to-follow style. All principles and concepts are clearly illustrated through the use of relevant applications and examples from the biological sciences, and explanations are further enhanced with problems and up-to-date references. Written by a world-renowned authority on biochemical kinetics, this remarkable book also features an easy-to-understand statistical development of entropy and a more extensive coverage of chemical kinetics and ligand binding to macromolecules than is usually found in books of this kind. Readers will acquire a working knowledge of thermodynamics and kinetics that they can readily apply to biological systems and use for exploring the scientific literature.

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