



# Biological Thermodynamics

*Donald T. Haynie*

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## **Biological Thermodynamics** Donald T. Haynie

Biological Thermodynamics provides an introduction to the study of energy transformations for students of the biological sciences. Donald Haynie uses an informal writing style to introduce this core subject in a manner that will appeal to biology and biochemistry undergraduate students. The emphasis of the text is placed on understanding basic concepts and developing problem-solving skills throughout the text. The level of mathematical complexity is kept to a minimum. Each chapter provides numerous examples taken from different areas of biochemistry, as well as extensive exercises to aid understanding. Topics covered include energy and its transformation, the First Law of Thermodynamics, the Second Law of Thermodynamics, Gibbs Free Energy, statistical thermodynamics, binding equilibria and reaction kinetics, and a survey of the most exciting areas of biological thermodynamics today, particularly the origin of life on Earth.

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