



# Invitation to Physical Chemistry:(With CD-ROM)

*Gopala Krishna Vemulapalli*

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## **Invitation to Physical Chemistry:(With CD-ROM)** Gopala Krishna Vemulapalli

This is a unique book with a different aim from other books on the subject. The idea is to provide readers with the “big picture” first, yet at a level that helps further the study of physical chemistry. The text covers all the important topics in physical chemistry — thermodynamics, statistical thermodynamics, quantum chemistry, and chemical kinetics — staying rigorously close to the basic theory, using appropriate mathematics but avoiding long derivations. Moreover, the book is supplemented by a CD-ROM to make it more comprehensive, interactive and useful for a wider audience. The CD-ROM contains examples, extended discussion, exercises and details of important derivations to reinforce understanding of physical chemistry.

### **Contents:**

- ***Quantum Chemistry:***
  - The Schrödinger Equation, Waves and Wave Packets
  - Spectroscopy: Rotations and Vibrations
  - Atoms
  - Molecules
- ***Chemical Thermodynamics:***
  - Entropy and Equilibrium
  - The Fundamental Equation of Thermodynamics
  - Thermodynamic Potentials
  - Chemical Potential
  - Statistical Thermodynamics
  - States of Matter
- ***Kinetics:***
  - The Kinetic Molecular Theory of Gases
  - Chemical Kinetics

**Readership:** Instructors and students in chemistry and materials science, and readers interested in important ideas in physical science.

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