



Physical Chemistry: A Modern Introduction, Second Edition

By William M. Davis

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Designed for a two-semester introductory course sequence in physical chemistry, **Physical Chemistry: A Modern Introduction, Second Edition** offers a streamlined introduction to the subject. Focusing on core concepts, the text stresses fundamental issues and includes basic examples rather than the myriad of applications often presented in other, more encyclopedic books. Physical chemistry need not appear as a large assortment of different, disconnected, and sometimes intimidating topics. Instead, students should see that physical chemistry provides a coherent framework for chemical knowledge, from the molecular to the macroscopic level.

The book offers:

- *Novel organization to foster student understanding*, giving students the strongest sophistication in the least amount of time and preparing them to tackle more challenging topics
- *Strong problem-solving emphasis*, with numerous end-of-chapter practice exercises, over two dozen in-text worked examples, and a number of clearly identified spreadsheet exercises
- *A quick review in calculus*, via an appendix providing the necessary mathematical background for the study of physical chemistry
- *Powerful streamlined development of group theory and advanced topics in quantum mechanics*, via appendices covering molecular symmetry and special quantum mechanical approaches

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Editorial Review

From the Publisher

This text offers a unique, streamlined approach built around understanding physical chemistry phenomena at the molecular level. Coverage is organized around behavior rather than the historical order of discovery or the artificial ordering of "laws." The book develops a global awareness of core principles and practices as opposed to an itemized glimpse of seemingly unrelated issues. The text promotes retention of physical chemistry essentials needed by the students of all physical sciences.

From the Back Cover

Key Benefit: This book offers a unique, streamlined and contemporary approach to physical chemistry that promotes greater retention of essentials. It downplays examples and models that are considered traditional yet hold little educational value. **Key Topics:** Dykstra strives to develop a global awareness of essential principles and practices, rather than an itemized understanding of seemingly unrelated issues. Coverage is organized around behavior—rather than the historical order of discovery or the artificial ordering of laws—and unified by its molecular view of each topic.

About the Author

William M. Davis received his BSc (honors) in chemistry from the University of Western Ontario, London, Canada, and his MSc and PhD from the University of Guelph, Ontario, Canada. He taught lecture and laboratory sections of general, physical, and inorganic chemistry at several Canadian universities before moving to Texas to take up a tenure-track position at The University of Texas at Brownsville, where he taught general, physical, inorganic, analytical, organic, and environmental chemistry for 10 years. In 2008, he moved to Texas Lutheran University, where he is currently an Associate Professor and Chair of Chemistry and holds the George Kieffer Fellowship in Science. Dr. Davis's research interests include application of computational and analytical chemistry techniques to systems of environmental and biochemical interest.

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