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Third Edition

James R. Barrante

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**Horace, Quintus Horatius Flaccus**



### **Applied Mathematics For Physical Chemistry 3rd Edition:**

*Applied Mathematics for Physical Chemistry* James R. Barrante, 2016-02-10 By the time chemistry students are ready to study physical chemistry they've completed mathematics courses through calculus. But a strong background in mathematics doesn't necessarily equate to knowledge of how to apply that mathematics to solving physicochemical problems. In addition, in-depth understanding of modern concepts in physical chemistry requires knowledge of mathematical concepts and techniques beyond introductory calculus such as differential equations, Fourier series, and Fourier transforms. This results in many physical chemistry instructors spending valuable lecture time teaching mathematics rather than chemistry. Barrante presents both basic and advanced mathematical techniques in the context of how they apply to physical chemistry. Many problems at the end of each chapter test students' mathematical knowledge. Designed and priced to accompany traditional core textbooks in physical chemistry, *Applied Mathematics for Physical Chemistry* provides students with the tools essential for answering questions in thermodynamics, atomic molecular structure, spectroscopy, and statistical mechanics. *Applied Mathematics for Physical Chemistry* James R. Barrante, 1998

1 Coordinate Systems 2 Functions and Graphs 3 Logarithms 4 Differential Calculus 5 Integral Calculus 6 Differential Equations 7 Infinite Series 8 Scalars and Vectors 9 Matrices and Determinants 10 Operators 11 Numerical Methods and the Use of the Computer 12 Mathematical Methods in the Laboratory Appendices Answers Index *Physical Chemistry* Robert G. Mortimer, 2008-05-29 In this third edition, core applications have been added along with more recent developments in the theories of chemical reaction kinetics and molecular quantum mechanics, as well as in the experimental study of extremely rapid chemical reactions. Fully revised, concise edition covering recent developments in the field. Supports student learning with step-by-step explanation of fundamental principles at an appropriate level of math rigor and pedagogical tools to aid comprehension. Encourages readers to apply theory in practical situations.

*Mathematics for Physical Chemistry* Robert G. Mortimer, 2005-06-10 *Mathematics for Physical Chemistry* Third Edition is the ideal text for students and physical chemists who want to sharpen their mathematics skills. It can help prepare the reader for an undergraduate course, serve as a supplementary text for use during a course, or serve as a reference for graduate students and practicing chemists. The text concentrates on applications instead of theory, and although the emphasis is on physical chemistry, it can also be useful in general chemistry courses. The Third Edition includes new exercises in each chapter that provide practice in a technique immediately after discussion or example and encourage self-study. The first ten chapters are constructed around a sequence of mathematical topics with a gradual progression into more advanced material. The final chapter discusses mathematical topics needed in the analysis of experimental data. Numerous examples and problems are interspersed throughout the presentations. Each extensive chapter contains a preview, objectives, and summary. Includes topics not found in similar books such as a review of general algebra and an introduction to group theory. Provides chemistry-specific instruction without the distraction of abstract concepts or theoretical issues in pure mathematics.

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