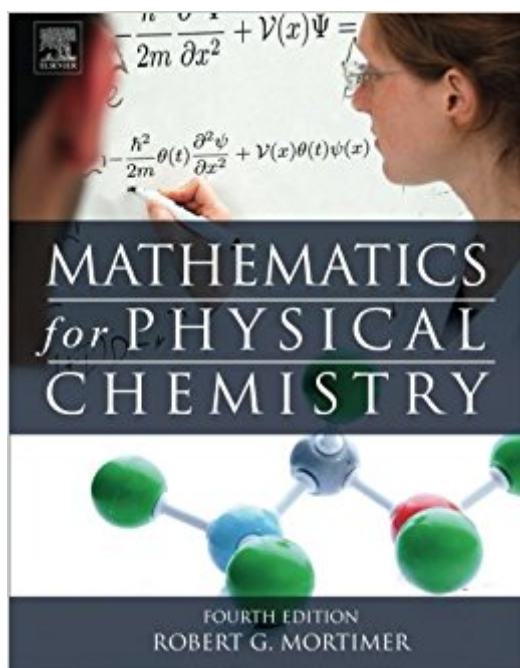


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Mathematics For Physical Chemistry, Fourth Edition



Synopsis

Mathematics for Physical Chemistry is the ideal supplementary text for practicing chemists and students who want to sharpen their mathematics skills while enrolled in general through physical chemistry courses. This book specifically emphasizes the use of mathematics in the context of physical chemistry, as opposed to being simply a mathematics text. This 4e includes new exercises in each chapter that provide practice in a technique immediately after discussion or example and encourage self-study. The early chapters are constructed around a sequence of mathematical topics, with a gradual progression into more advanced material. A final chapter discusses mathematical topics needed in the analysis of experimental data. Numerous examples and problems interspersed throughout the presentations. Each extensive chapter contains a preview and objectives. 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.

Book Information

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Customer Reviews

"The text is extremely clear and concise delivering exactly what the student needs to know in a pinch â “ nothing more, nothing less. It is an indispensable resource for any student of physical chemistry." --Gregory S. Engel, Harvard University "Mathematics for Physical Chemistry is a comprehensive review of many useful mathematical topics...The book would be useful for anyone studying physical chemistry." --Daniel B. Lawson, University of Michigan-Dearborn "The student will derive benefit from the clarity, and the professional from a concise compilation of techniques

stressing application rather than theory.â | Recommended." --John A. Wass,Â Scientific Computing and Instrumentation

Mathematics for Physical Chemistry, Fourth Edition, includes everything a student of physical chemistry needs to know about mathematics. Unlike other textbooks taught from a mathematician's point of view and focused on mathematical theory, this book emphasizes the applications of mathematics to physical chemistry. This book is constructed around a sequence of mathematical topics with a gradual progression into more advanced material. It uses a problem-solving approach, an important tool in learning mathematics and physical chemistry. Each chapter begins with a list of principle facts, ideas, and objectives and ends with a list of problems. Solved examples and exercises are interspersed throughout the chapters. This book is an ideal required, supplementary, or self-study textbook for physical chemistry students or reference for graduates, researchers, and practicing chemists. Key features: Bridges the gap between theoretical mathematics and the actual use of mathematics in physical chemistry courses Focuses on applications, allowing you to begin using the techniques immediately Uses plain language for greater clarity and comprehension Features illustrations that allow you to visualize problems Includes worked examples that provide patterns and help make self study more efficient New to this edition: New exercises in each chapter provide practice in a technique immediately after discussion or example and encourage self study Expanded sections on computer techniques include discussions of Excel and Mathematica A solutions manual with answers to all problems is available on our companion website at booksite.elsevier.com/9780124158092

Really thick, heavy book. Used it to beat a crackhead to death on campus that tried to rob me in the middle of the night when I was walking through campus drunk off my ass.

This book is a waste of money! I am currently an under-grad looking for some tutorial help for my Quantum course and purchased the book without reviewing 's feedback reviews. Wish I would have done so before I bought it. Although this book provides some example questions with solutions, they are few. And the chapter problems don't have any answers to examine. This author or publisher needs to re-think their approach.

I agree with the earlier reviews about the number of typos and lack of solutions for problems. Most of the typos have been corrected in the newer edition, but not all. And of course solutions to the

problems would be wonderful, or at least the answers. I think the book is now worth buying.

I agree with Mr. Jones. I am an undergraduate taking physical chemistry and I find it extremely frustrating that there are so many typos in this book and there are absolutely no answers given. I have also noticed that Mortimer uses different variables for cylindrical and spherical coordinates than any other source I have consulted.

There are a lot of typographic errors in my copy of this book. The errors in cross-references are merely annoying; those that appear in equations are likely confound the novice. There are, of course, exercises presented in each chapter, but no solutions. Not even a simple appendix containing the final answers.

Good

So far it hasn't come to much help, but it should be more useful next semester.

This textbook was pretty expensive and is pretty easy to understand. But it doesn't even have colored pictures.

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