

Mathematics for Physical Chemistry, Third Edition

By Robert G. Mortimer

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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 interspersed throughout the presentations
- * Each extensive chapter contains a preview, objectives, and summary
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- * Provides chemistry specific instruction without the distraction of abstract concepts or theoretical issues in pure mathematics

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Editorial Review

Review

"The text is a fairly easy read, well laid out, and laced with examples that serve to illustrate several concepts at once, thus obviating the necessity of hundreds more. The student will derive benefit from the clarity, and the professional from a concise compilation of techniques stressing application rather than theory. As such this book will be useful to a wide range of physical scientists and engineers, as well as the interested life scientist. My summary: Recommended."

- John A. Wass, for SCIENTIFIC COMPUTING AND INSTRUMENTATION

From the Back Cover

FROM SECOND EDITION

This is the kind of book that I would have wanted when I was a student in physical chemistry. The mathematics courses that I took were like most such courses--they were taught from the point of view of a mathematician and focused on the mathematical theory rather than on applying the mathematics to a particular field in science. I have tried to include everything in this book that a student of physical chemistry needs to know about mathematics in order to use it as one of his or her most important tools, presented from the point of view of applications

About the Author

Robert Mortimer has been a professor of chemistry at Rhodes College since 1981. He is the recipient of a Woodrow Wilson National Fellowship as well as a National Science Foundation Predoctoral Fellowship.

Users Review

From reader reviews:

Robert Haas:

As people who live in often the modest era should be update about what going on or data even knowledge to make these people keep up with the era that is always change and move ahead. Some of you maybe can update themselves by looking at books. It is a good choice to suit your needs but the problems coming to an individual is you don't know which one you should start with. This Mathematics for Physical Chemistry, Third Edition is our recommendation to cause you to keep up with the world. Why, as this book serves what you want and wish in this era.

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Teresa Cook:

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Katie Duffy:

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