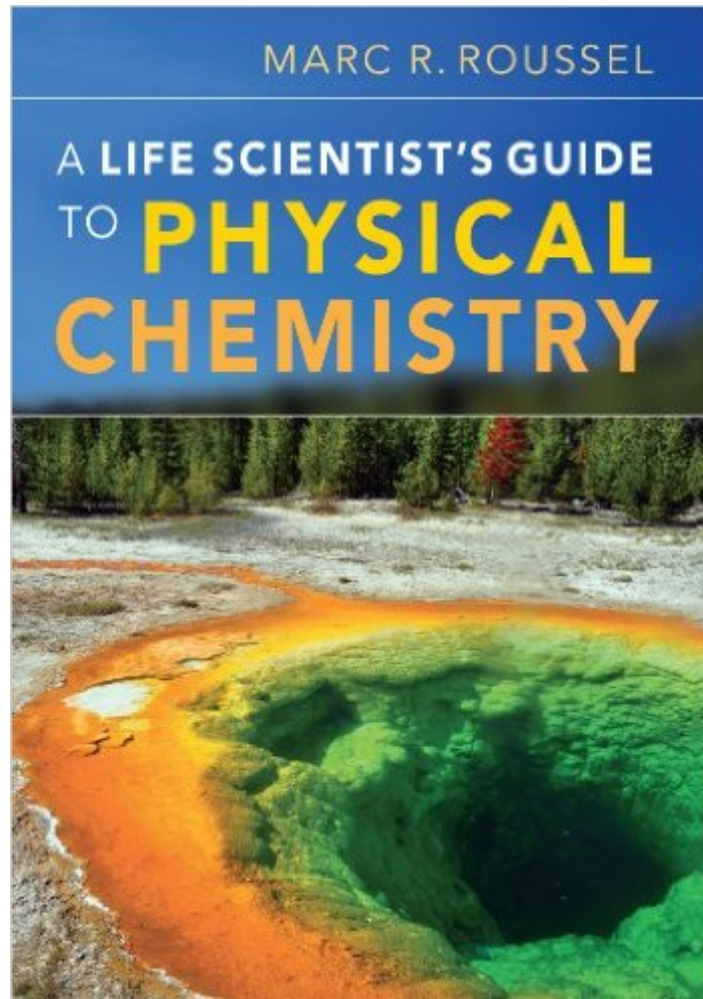


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# A Life Scientist's Guide To Physical Chemistry



## Synopsis

Motivating students to engage with physical chemistry through biological examples, this textbook demonstrates how the tools of physical chemistry can be used to illuminate biological questions. It clearly explains key principles and their relevance to life science students, using only the most straightforward and relevant mathematical tools. More than 350 exercises are spread throughout the chapters, covering a wide range of biological applications and explaining issues that students often find challenging. These, along with problems at the end of each chapter and end-of-term review questions, encourage active and continuous study. Over 130 worked examples, many deriving directly from life sciences, help students connect principles and theories to their own laboratory studies. Connections between experimental measurements and key theoretical quantities are frequently highlighted and reinforced. Answers to the exercises are included in the book. Fully worked solutions and answers to the review problems, password-protected for instructors, are available at [www.cambridge.org/roussel](http://www.cambridge.org/roussel).

## Book Information

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## Customer Reviews

Clear and explains concepts well.

This is a splendid volume, not only as a guide for life scientists (as the title announces), but also for chemists and physicists, especially those teaching or interacting with biologists. It is unique in

comprehensively presenting a special view of the approaches available to elucidate the complexity and variety of biological systems using the powerful methods better known and understood by physical scientists. Professor Roussel's clear explanations of basic principles and excellent diagrams are a model for lecturers and teachers in their attempts to impart these fundamentals to their protégés. The friendly text brings down to earth some exceedingly difficult concepts in a simple and effective way. Moreover the excitement of what is often regarded as a "dry subject" is brought to life. The author has first-hand experience over many years of dealing with the difficulties experienced by his students and of how to enlighten them. His expertise in this has enabled him to provide us with 350 examples of where difficulties have been experienced by young students, although senior scientists may also find some of these problems challenging. Altogether this is a valuable and useful book.

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