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Peter Atkins and Julio de Paula offer a fully integrated approach to the study of physical chemistry and biology.

The Solutions Manual to accompany Physical Chemistry for the Life Sciences 2e contains fully-worked solutions to all end-of-chapter discussion questions and exercises featured in the book. The manual provides helpful comments and friendly advice to aid understanding. It is also a valuableresource for any lecturer who wishes to use the extensive selection of exercises featured in the text to support either formative or summative assessment, and wants labour-saving, ready access to the full solutions to these questions.

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.

This book is ideal for use in a one-semester introductory course in physical chemistry for students of life sciences. The author's aim is to emphasize the understanding of physical concepts rather than focus on precise mathematical development or on actual experimental details. Subsequently, only basic skills of differential and integral calculus are required for understanding the equations. The end-of-chapter problems have both physiochemical and biological applications.

Physical Chemistry for the Biosciences addresses the educational needs of students majoring in biophysics, biochemistry, molecular biology, and other life sciences. It presents the core concepts of physical chemistry with mathematical rigor and conceptual clarity, and develops the modern biological applications alongside the physical principles. The traditional presentations of physical chemistry are augmented with material that makes these chemical ideas biologically relevant, applying physical principles to the understanding of the complex problems of 21st century biology.

Hailed by advance reviewers as "a kinder, gentler P. Chem. text," this book meets the needs of an introductory course on physical chemistry, and is an ideal choice for courses geared toward pre-medical and life sciences students. Physical Chemistry for the Chemical and Biological Sciences offers a wealth of applications to biological problems, numerous worked examples and around 1000 chapter-end problems.

The Solutions manual to accompany Physical Chemistry for the Life Sciences contains full worked solutions to all end-of-chapter problems featured in the book. It is a valuable resource for any lecturer who wishes to use the extensive selection of problems featured in the text to support eitherformative or summative assessment, and wants labour-saving, ready access to the full solutions to these problems.Online Resource Centre:For lecturers (password-protected):The companion web site to the main book features answers to the problems (without full worked solutions), which lecturers can use themselves, or provide to students, to facilitate rapid checking of answers.

Life is produced by the interplay of water and biomolecules. This book deals with the physicochemical aspects of such life phenomena produced by water and biomolecules, and addresses topics including "Protein Dynamics and Functions", "Protein and DNA Folding", and "Protein Amyloidosis". All sections have been written by internationally recognized front-line researchers. The idea for this book was born at the 5th International Symposium "Water and Biomolecules", held in Nara city, Japan, in 2008.

"Physical Chemistry for the Life Sciences breaks new ground by bringing the worlds of physical chemistry and the life sciences together, showing how the tools of physical chemistry are used to answer biological questions. Written specifically to meet the needs of life science majors who must master a basic level of physical chemistry, this text provides clear explanations of difficult concepts with an eye toward building insight into biochemical phenomena."--BOOK JACKET.