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After teaching Physical Chemistry for several years, I find Castellan's book the best there is, not only for undergraduate courses, but also as a handy resource for physical insight into various phenomena. I like especially his conceptual presentation of temperature, heat and entropy, and his easy-to-follow "mathematical interludes".

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This text was written with an aim to provide the beginner with a reliable and understandable guide for study in the teacher's absence. Except where it would needlessly overburden the student, the subject is presented in a mathematically rigorous way. In spite of this, no mathematics beyond the elementary calculus is required.

A leading book for 80 years, Silbey's Physical Chemistry features exceptionally clear explanations of the concepts and methods of physical chemistry for students who have had a year of calculus and a year of physics. The basic theory of chemistry is presented from the viewpoint of academic physical chemists, but the many practical applications of physical chemistry are integrated throughout the text. The problems in the text also reflect a skillful blend of theory and practical applications. This text is ideally suited for a standard undergraduate physical chemistry course taken by chemistry, chemical engineering, and biochemistry majors in their junior

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or senior year.

The National Science Foundation funded a synthesis study on the status, contributions, and future direction of discipline-based education research (DBER) in physics, biological sciences, geosciences, and chemistry. DBER combines knowledge of teaching and learning with deep knowledge of discipline-specific science content. It describes the discipline-specific difficulties learners face and the specialized intellectual and instructional resources that can facilitate student understanding. Discipline-Based Education Research is based on a 30-month study built on two workshops held in 2008 to explore evidence on promising practices in undergraduate science, technology, engineering, and mathematics (STEM) education. This book asks questions that are essential to advancing DBER and broadening its impact on undergraduate science teaching and learning. The book provides empirical research on undergraduate teaching and learning in the sciences, explores the extent to which this research currently influences undergraduate instruction, and identifies the intellectual and material resources required to further develop DBER. Discipline-Based Education Research provides guidance for future DBER research. In addition, the findings and recommendations of this report may invite, if not assist, post-secondary institutions to increase interest and research activity in DBER and improve its quality and usefulness across all natural science disciplines, as well as guide instruction and assessment across natural science courses to improve student learning. The book brings greater focus to issues of student attrition in the natural sciences that are related to the quality of instruction. Discipline-Based Education Research will be of interest to educators, policy makers, researchers, scholars, decision makers in universities, government agencies, curriculum developers,

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research sponsors, and education advocacy groups.

A perennial bestseller by eminent mathematician G. Polya, *How to Solve It* will show anyone in any field how to think straight. In lucid and appealing prose, Polya reveals how the mathematical method of demonstrating a proof or finding an unknown can be of help in attacking any problem that can be "reasoned" out—from building a bridge to winning a game of anagrams. Generations of readers have relished Polya's deft—indeed, brilliant—instructions on stripping away irrelevancies and going straight to the heart of the problem.

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 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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Reaching beyond the typical high school chemistry textbook, each title in this series offers real-life, concrete examples that illustrate the practical importance of the topic at hand, and includes a full-color periodic table, color photographs, sidebars, and a glossary.

The Instructor's solutions manual to accompany Atkins' Physical Chemistry provides detailed solutions to the 'b' exercises and the even-numbered discussion questions and problems that feature in the ninth edition of Atkins' Physical Chemistry . The manual is intended for instructors and consists of material that is not available to undergraduates. The manual is free to all adopters of the main text.

Effective risk communication is essential to the well-being of any organization and those people who depend on it. Ineffective communication can cost lives, money and reputations. *Communicating Risks and Benefits: An Evidence-Based User's Guide* provides the scientific foundations for effective communications. The book authoritatively summarizes the relevant research, draws out its implications for communication design, and provides practical ways to evaluate and improve communications for any decision involving risks and benefits. Topics include the communication of quantitative information and warnings, the roles of emotion and the news media, the effects of age and literacy, and tests of how well communications meet the organization's goals. The guide will help users in any organization, with any budget, to make the science of their communications as sound as the science that they are communicating.

This book is designed to provide wide understanding of lignin

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carbon fiber processes, chemistry, mechanisms, and techniques that will help in further development of lignin carbon fiber for automobile, aerospace, marine, and sports equipment applications. Each step in the processing of lignin carbon fibers is presented as a separate chapter so that issues concerning the processes are exhaustively discussed. Basic scientific principles governing each stage of lignin carbon fiber processing, current state of research and mechanisms behind the processes are illustrated for better understanding. This is the first book to address the entire scope of lignin carbon fiber processing including; extraction, quantification, purification, melt processing, stabilization, carbonization, optimization of processes, and characterization. Presents detailed information on the chemistry, processing, principles and properties of bio-sourced lignin for carbon fiber production; Highlights techniques of recovery and properties of lignin from agricultural waste sources; Addresses applications in automobile, aircraft, marine, and sport industries; Provides insight into the lignin complex macromolecular system, the role of lignin chemistry as it relates to carbon fiber production and the evolution of lignin carbon fiber structure during processing.

This Book Is Organized Into Thirteen Sections, Each Dealing With A Particular Area In Physical Chemistry. Each Section Starts Off With A Short Biography Of A Famous Scientist Associated With That Field. The Theory Behind The Experimental Work Is Then Covered, Followed By The Experimental Procedures Themselves. A Few Review Questions Help You To Gauge Your Understanding Of The Topics Covered. Each Section Has Its Own Appendix That Contains Useful Data, Hints To Solve The Review Questions And The Expected Experimental Results. Each Section Is

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