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this volume features a greater emphasis on the molecular view of physical chemistry and a move away from classical thermodynamics it offers greater explanation and support in mathematics which remains an intrinsic part of physical chemistry

an essential guide to using maxima a popular open source symbolic mathematics engine to solve problems build models analyze data and explore fundamental concepts symbolic mathematics for chemists offers students of chemistry a guide to maxima a popular open source symbolic mathematics engine that can be used to solve problems build models analyze data and explore fundamental chemistry concepts the author a noted expert in the field focuses on the analysis of experimental data obtained in a laboratory setting and the fitting of data and modeling experiments the text contains a wide variety of illustrative examples and applications in physical chemistry quantitative analysis and instrumental techniques designed as a practical resource the book is organized around a series of worksheets that are provided in a companion website each worksheet has clearly defined goals and learning objectives and a detailed abstract that provides motivation and context for the material this important resource offers an text that shows how to use popular symbolic mathematics engines to solve problems includes a series of worksheet that are prepared in maxima contains step by step instructions written in clear terms and includes illustrative examples to enhance critical thinking creative problem solving and the ability to connect concepts in chemistry offers hints and case studies that help to master the basics while proficient users are offered more advanced avenues for exploration written for advanced undergraduate and graduate students in chemistry and instructors looking to enhance their lecture or lab course with symbolic mathematics materials symbolic mathematics for chemists a guide for maxima users is an essential resource for solving and exploring quantitative problems in chemistry

assembling a great deal of material in one place this book serves as a valuable guide for chemists and related physical scientists throughout their careers covering essential equations theories and tools needed for conducting and interpreting contemporary research offers a comprehensive and in depth treatment of the most challenging concepts of chemistry updates and revises existing chapters from the prior edition and adds new chapters on inorganic organic and biochemistry appendices about

nuclides and organic reactions and expanded questions at the end of chapters has a complementary website with a solutions manual and powerpoint presentations for instructors

provides the background tools and models required to understand organic synthesis and plan chemical reactions more efficiently knowledge of physical chemistry is essential for achieving successful chemical reactions in organic chemistry chemists must be competent in a range of areas to understand organic synthesis organic chemistry provides the methods models and tools necessary to fully comprehend organic reactions written by two internationally recognized experts in the field this much needed textbook fills a gap in current literature on physical organic chemistry rigorous yet straightforward chapters first examine chemical equilibria thermodynamics reaction rates and mechanisms and molecular orbital theory providing readers with a strong foundation in physical organic chemistry subsequent chapters demonstrate various reactions involving organic organometallic and biochemical reactants and catalysts throughout the text numerous questions and exercises over 800 in total help readers strengthen their comprehension of the subject and highlight key points of learning the companion organic chemistry workbook contains complete references and answers to every question in this text a much needed resource for students and working chemists alike this text presents models that establish if a reaction is possible estimate how long it will take and determine its properties describes reactions with broad practical value in synthesis and biology such as C-C coupling reactions pericyclic reactions and catalytic reactions enables readers to plan chemical reactions more efficiently features clear illustrations figures and tables with a foreword by nobel prize laureate robert h grubbs organic chemistry theory reactivity and mechanisms in modern synthesis is an ideal textbook for students and instructors of chemistry and a valuable work of reference for organic chemists physical chemists and chemical engineers

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this text presents physical chemistry as a coherent whole rather than a set of disjointed topics and shows how the subject relates to the rest of chemistry and physics it emphasizes physical models as well as mathematical techniques along with both rigorous and approximate order of magnitude problem solving designed to progress beyond a numerical answer problems expose the physical significance of the situation and teach students how to pose a problem in the first place in addition modern molecular concepts currently unanswered problems in research experimental techniques and new directions in the field are introduced wherever appropriate an orderly progression of thermodynamics carefully builds students knowledge without covering too much too early on chemical reaction thermodynamics is covered in

chapter 7 after the culmination of thermodynamics with advanced material in chapter 10

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this text begins with the basics of the physical chemistry of liquid gas and liquid solid interfaces including electro chemistry long range forces and the various methods of spectroscopic and structural study of surfaces these topics are followed by descriptive treatments of topics such as friction lubrication adhesion and emulsion foams and aerosols closing chapters present a quantitative approach to physical and chemical adsorption of vapors and gases as well as heterogeneous catalysis for upper level undergraduates and graduate students annotation copyrighted by book news inc portland or

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