

Chemistry 3rd Edition Julia Burdge

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chemistry second edition by julia burdge has been created to bridge the gap in the mcgraw hill general chemistry offerings this textbook offers a clear writing style written with the students in mind julia uses her background of teaching hundreds of general chemistry students per year and creates content to offer more detailed explanation on areas where she knows they have problems sitting down with the art house julia burdge worked with the artist to create the style and major art pieces in her text out of these discussions came the creation of the visualizing art two page spreads which detail a process for the students and provide them with the answer to what is the point due the success of the art with students this offering has been doubled in the second edition with outstanding art a consistent problem solving approach interesting applications woven throughout the chapters and a wide range of end of chapter problems this is a great second edition text

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the atoms first approach provides a consistent and logical method for teaching general chemistry this approach starts with the fundamental building block of matter the atom and uses it as the stepping stone to understanding more complex chemistry topics once mastery of the nature of atoms and electrons is achieved the formation and properties of compounds are developed only after the study of matter and the atom will students have sufficient background to fully engage in topics such as stoichiometry kinetics equilibrium and thermodynamics thus the atoms first approach empowers instructors to present the most complete and compelling story of general chemistry far from a simple re ordering of topics this is a book that will truly meet the needs of the growing atoms first market the third edition continues to build on the innovative success of the first and second editions changes to this edition include specific refinements intended to augment the student centered pedagogical features that continue to make this book effective and popular both with professors and with their students

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this book discusses the connectivity between major chemicals showing how a chemical is made along with why and some of the business considerations the book helps smooth a student s transition to industry and assists current professionals who need to understand the larger picture of industrial chemistry principles and practices the book addresses a wide scope of content emphasizing the business and polymer pharmaceutical agricultural aspects of industrial chemistry covers patenting experimental design and systematic optimization of experiments written by an author with extensive industrial experience but who is now a university professor making him uniquely positioned to present this material has problems at the end of chapters and a separate solution manual available for adopting professors puts chemical industry topics in context and ties together many of the principles chemistry majors learn across more specific courses

from its very origin introductory chemistry an atoms first approach by julia burdge and michelle driessen has been developed and written using an atoms first approach specific to introductory chemistry it is not a pared down version of a general chemistry text but carefully crafted with the introductory chemistry student in mind the ordering of topics facilitates the conceptual development of chemistry for the novice rather than the historical development that has been used traditionally its language and style are student friendly and conversational and the importance and wonder of chemistry in everyday life are emphasized at every opportunity continuing in the burdge tradition this text employs an outstanding art program a consistent problem solving approach interesting applications woven throughout the chapters and a wide range of end of chapter problems

written for calculus inclusive general chemistry courses chemical principles helps students develop chemical insight by showing the connections between fundamental chemical ideas and their applications unlike other texts it begins with a detailed picture of the atom then builds toward chemistry's frontier continually demonstrating how to solve problems think about nature and matter and visualize chemical concepts as working chemists do flexibility in level is crucial and is largely established through clearly labeling separating in boxes the calculus coverage in the text instructors have the option of whether to incorporate calculus in the coverage of topics the multimedia integration of chemical principles is more deeply established than any other text for this course through the unique ebook the comprehensive chemistry portal living graph icons that connect the text to the and a complete set of animations students can take full advantage of the wealth of resources available to them to help them learn and gain a deeper understanding

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study guide is a valuable resource containing material to help the student practice problem solving skills

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