

Chemistry Atoms First

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chemistry atoms first 2e is a peer reviewed openly licensed introductory textbook produced through a collaborative publishing partnership between openstax and the university of connecticut and uconn undergraduate student government association this text is an atoms first adaptation of openstax chemistry 2e the intention of atoms first involves a few basic principles first it introduces atomic and molecular structure much earlier than the traditional approach and it threads these themes through subsequent chapters this approach may be chosen as a way to delay the introduction of material such as stoichiometry that students traditionally find abstract and difficult thereby allowing students time to acclimate their study skills to chemistry additionally it gives students a basis for understanding the application of quantitative principles to the chemistry that underlies the entire course it also aims to center the study of chemistry on the atomic foundation that many will

expand upon in a later course covering organic chemistry easing that transition when the time arrives

ebook introductory chemistry an atoms first approach

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

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 method empowers instructors to present the most complete and compelling story of general chemistry julia burdge is renowned for setting chemistry in interesting relevant context and for her engaging conversational writing style presenting chemistry in a way students can appreciate and understand while satisfying instructors requirements for rigor accuracy and comprehensive coverage jason overby teaches general chemistry using an atoms first approach bringing a unique perspective and years of experience to the development of this new project far from a simple re ordering of topics this is a book that will truly meet the needs of the growing atoms first market together these authors have developed a product with the same appeal modern and descriptive artwork sound problem solving approach and wide range of end of chapter problems that customers have come to expect from burdge this textbook will offer the same engaging writing style modern and descriptive artwork sound problem solving approach and wide range of end of chapter problems that customers are accustomed to with the burdge product jason overby s involvement with this project was crucial as he has been teaching with this approach for over four years which allowed julia and jason to create a product that fits the need for this growing market

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