

McMurry Fay Chemistry 5th Edition

The Chemistry Connection: From Atoms to Applications
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whether you re an avid student or an inquisitive learner the chemistry connection from atoms to applications is your key to unlocking the amazing world of chemistry this book breaks down the basic components of matter atoms molecules and chemical reactions into clear explanations simplifying complicated ideas this book makes the connections demonstrating how chemistry affects everything around us from the smallest particles to the most significant applications in daily life you will teach about the

amazing mechanisms that underpin everything in our world including the food we consume the technologies we use and even the surrounding natural beauty through lucid illustrations meaningful comparisons and useful advice the chemistry connection makes science approachable and interesting for all readers this book provides a thorough exploration of the fundamentals of chemistry and its practical applications making it ideal for anybody wishing to brush up on their knowledge develop a better understanding of the topic or just quench their curiosity explore and learn how atom relates to your surroundings

this book explores the relationship between the content of chemistry education and the history and philosophy of science hps framework that underlies such education it discusses the need to present an image that reflects how chemistry developed and progresses it proposes that chemistry should be taught the way it is practiced by chemists as a human enterprise at the interface of scientific practice and hps finally it sets out to convince teachers to go beyond the traditional classroom practice and explore new teaching strategies the importance of hps has been recognized for the science curriculum since the middle of the 20th century the need for teaching chemistry within a historical context is not difficult to understand as hps is not far below the surface in any science classroom a review of the literature shows that the traditional chemistry classroom curricula and textbooks while dealing with concepts such as law theory model explanation hypothesis observation evidence and idealization generally ignore elements of the history and philosophy of science this book proposes that the conceptual understanding of chemistry requires knowledge and understanding of the history and philosophy of science professor niaz s book is most welcome coming at a time when there is an urgently felt need to upgrade the teaching of science the book is a huge aid for adding to the usual way presenting science as a series of mere facts also the necessary mandate to show how science is done and how science through its history and philosophy is part of the cultural development of humanity gerald holton mallinckrodt professor of physics professor of history of science harvard university in this stimulating and sophisticated blend of history of chemistry philosophy of science and science pedagogy professor mansoor niaz has succeeded in offering a promising new approach to the teaching of fundamental ideas in chemistry historians and philosophers of chemistry and above all chemistry teachers will find this book full of valuable and highly usable new ideas alan rocke case western reserve university this book artfully connects chemistry and chemistry education to the human context in which chemical science is practiced and the historical and philosophical background that illuminates that practice mansoor niaz deftly weaves together historical episodes in the quest for scientific knowledge with the psychology of learning and philosophical reflections on the nature of scientific knowledge and method the result is a compelling case for historically and philosophically informed science education highly recommended harvey siegel university of miami books that analyze the philosophy and history of science in chemistry are quite rare chemistry education and contributions from history and philosophy of science by mansoor niaz is one of the rare books on the history and philosophy of chemistry and their importance in teaching this science the book goes through all the main concepts of chemistry and analyzes the historical and philosophical developments as well as their reflections in textbooks closest to my heart is chapter 6 which is devoted to the chemical bond the glue that holds together all matter in our earth the chapter emphasizes the revolutionary impact of the concept of the covalent bond on the chemical community and the great novelty of the idea that was conceived 11 years before quantum mechanics was able to offer the mechanism of electron pairing and covalent bonding the author goes then to describe the emergence of two rival theories that explained the nature of the chemical bond in terms of quantum mechanics these are valence bond vb and molecular orbital mo

theories he emphasizes the importance of having rival theories and interpretations in science and its advancement he further argues that this vibrant rivalry is still alive and together the two conceptual frames serve as the tool kit for thinking and doing chemistry in creative manners the author surveys chemistry textbooks in the light of the how the books preserve or not the balance between the two theories in describing various chemical phenomena this talmudic approach of conceptual tension is a universal characteristic of any branch of evolving wisdom as such mansoor's book would be of great utility for chemistry teachers to examine how can they become more effective teachers by recognizing the importance of conceptual tension sason shaik sae'ed k and louis p fiedler chair in chemistry director the lise meitner minerva center for computational quantum chemistry the hebrew university of jerusalem israel

this book explores the evolving nature of objectivity in the history of science and its implications for science education it is generally considered that objectivity certainty truth universality the scientific method and the accumulation of experimental data characterize both science and science education such universal values associated with science may be challenged while studying controversies in their original historical context the scientific enterprise is not characterized by objectivity or the scientific method but rather controversies alternative interpretations of data ambiguity and uncertainty although objectivity is not synonymous with truth or certainty it has eclipsed other epistemic virtues and to be objective is often used as a synonym for scientific recent scholarship in history and philosophy of science has shown that it is not the experimental data baconian orgy of quantification but rather the diversity plurality in a scientific discipline that contributes toward understanding objectivity history of science shows that objectivity and subjectivity can be considered as the two poles of a continuum and this dualism leads to a conflict in understanding the evolving nature of objectivity the history of objectivity is nothing less than the history of science itself and the evolving and varying forms of objectivity does not mean that one replaced the other in a sequence but rather each form supplements the others this book is remarkable for its insistence that the philosophy of science and in particular that discipline's analysis of objectivity as the supposed hallmark of the scientific method is of direct value to teachers of science meticulously yet in a most readable way mansoor niaz looks at the way objectivity has been dealt with over the years in influential educational journals and in textbooks it's fascinating how certain perspectives fade while basic questions show no sign of going away there are few books that take both philosophy and education seriously this one does roald hoffmann cornell university chemist writer and nobel laureate in chemistry

research in science education has recognized the importance of history and philosophy of science hps nature of science nos is considered to be an essential part of hps with important implications for teaching science the role played by textbooks in developing students informed conceptions of nos has been a source of considerable interest for science educators in some parts of the world textbooks become the curriculum and determine to a great extent what is taught and learned in the classroom given this background and interest this monograph has evaluated nos in university level general chemistry textbooks published in u s a most textbooks in this study provided little insight with respect to the nine criteria used for evaluating nos some of the textbooks however inevitably refer to hps and thus provide guidelines for future textbooks a few of the textbooks go into considerable detail to present the atomic models of dalton thomson rutherford bohr and wave mechanical to illustrate the tentative nature of scientific

theories an important nos aspect these results lead to the question are we teaching science as practiced by scientists an answer to this question can help us to understand the importance of nos by providing students an hps based environment so that they too just like the scientists feel the thrill and excitement of discovering new things this monograph provides students and teachers guidelines for introducing various aspects of nos based on historical episodes

discover the essential aspects of chemistry in various industries with applied chemistry practical applications this comprehensive textbook provides an in depth understanding of fundamental chemical principles and their real world applications covering a wide range of topics from chemical reactions and materials science to environmental chemistry and sustainable practices it caters to students researchers and professionals written by experts our book blends theoretical concepts with practical examples offering a solid foundation in key concepts followed by discussions on their applications in industry technology and everyday life we emphasize sustainability green chemistry principles and environmentally friendly practices clear explanations of complex topics are supported by diagrams illustrations and tables our book integrates modern research findings and technological advancements in chemistry end of chapter summaries review questions and exercises reinforce learning and facilitate self assessment supplementary materials including online resources and laboratory exercises enhance the learning experience whether you re a student seeking an introduction to applied chemistry or a professional looking to expand your knowledge applied chemistry practical applications is an invaluable resource for understanding the practical aspects of chemistry in industry technology and society

gas phase ion chemistry is a broad field that has many applications and which encompasses various branches of chemistry and physics advances in gas phase ion chemistry volume 4 describes innovative ways of studying reactions as well as the application of unique apparatuses to problems in this field this volume contains a series of chapters in the general area of gas phase chemistry and physics which are at the cutting edge of research the chapters are not meant to be general reviews but focus on the author s own work they focus on both experimental and theoretical work which gives a balance to the volume applications are included to appeal to a wider audience and to broaden the knowledge of the more fundamentally inclined an application to environmental pollution monitoring and medical monitoring of breath is included with successive volumes the coverage broadens to include more current research in the title area the book is aimed at graduate researchers university faculty and graduates in industry the editors have made a specific effort to include contributions from those relatively new to the field which brings in new ideas and perspectives as well as those more established workers who bring a wealth of experience

comprehensive and up to date this unique four volume set offers readers a complete overview of the broad spectrum of general chemistry it enables them to obtain a basic yet thorough understanding of matter the processes it undergoes the principles that govern it and the international cast of men and women who have been critical in the development of the science of chemistry from elements atoms and molecules to terochemistry spectroscopy and chemical bonding its clear and concise explanations provide an illuminating and readily comprehensible introduction key presentations include forty element definition articles each providing basic periodic table information and general information on the element in question ninety five biographical articles

deal with prominent chemists while other articles provide additional historical context particularly with respect to eighteenth nineteenth and twentieth century developments

for two semester or three quarter courses in general chemistry mcmurry fay helps students and professors get to the heart of chemistry more effectively and helps students see the connections to chemistry more clearly mcmurry fay is known for its smart and precise presentation that blends the quantitative and visual aspects of general chemistry the 5th edition of mcmurry fay builds on this foundation making the right connections in general chemistry topically visually and quantitatively chemistry is mastered when students make the right connections in three key areas topics that are related conceptual reasoning with quantitative work and the different modes of communicating information mcmurry fay breaks through the boundaries traditionally imposed by textbooks that have historically made it difficult for students to make these connections on their own topic connections conceptual and quantitative parallel presentation and text graphic integration objects make these critical connections clear and visible so students see the chemistry the first time when you see the connections you see the chemistry students don t use textbooks exactly the same way they used them in the past the new layout of mf5 was designed to map to the way students seek and process information and is based on conversations with students about the way they study

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