

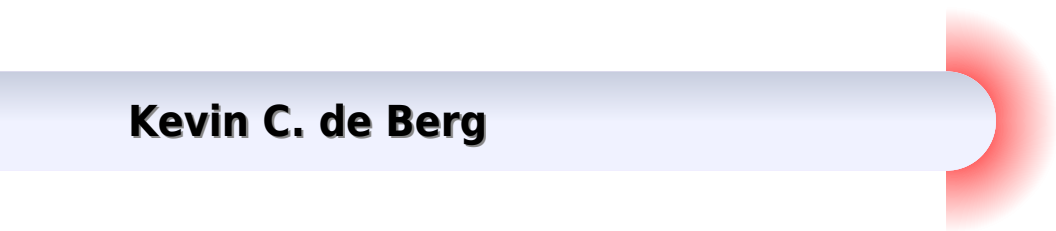
SPRINGER BRIEFS IN EDUCATION

Mansoor Niaz · Arelys Maza

Nature of Science in General Chemistry Textbooks

Nature Of Science In General Chemistry Textbooks Springerbriefs In Education

Kevin C. de Berg



Nature Of Science In General Chemistry Textbooks Springerbriefs In Education:

Nature of Science in General Chemistry Textbooks Mansoor Niaz, Arelys Maza, 2011-07-15 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

From 'Science in the Making' to Understanding the Nature of Science Mansoor Niaz, 2012-02-06 The Nature of Science is highly topical among science teacher educators and researchers Increasingly it is a mandated topic in state curriculum documents This book draws together recent research on Nature of Science studies within a historical and philosophical framework suitable for students and teacher educators Traditional science curricula and textbooks present science as a finished product Taking a different approach this book provides a glimpse of science in the making scientific practice imbued with arguments controversies and competition among rival theories and explanations Teaching about science in the making is a rich source of motivating students to engage creatively with the science curriculum Readers are introduced to science in the making through discussion and analysis of a wide range of historical episodes from the early 19th century to early 21st century Recent cutting edge research is presented to provide insight into the dynamics of scientific progress More than 90 studies from major science education journals related to nature of science are reviewed A theoretical framework field tested with in service science teachers is developed for moving from science in the making to understanding the Nature of Science

Evolving Nature of Objectivity in the History of Science and its Implications for Science Education Mansoor Niaz, 2017-10-26 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

Reconstruction of Wave-Particle Duality and its Implications for General Chemistry Textbooks Mansoor Niaz, Cecilia Marcano, 2012-04-26 It goes without saying that atomic structure including its dual wave particle nature cannot be demonstrated in the classroom Thus for most science teachers especially those in physics and chemistry the textbook is their key resource and their students core source of information Science education historiography recognizes the role played by the history and philosophy of science in developing the content of our textbooks and with this in mind the authors analyze more than 120 general chemistry textbooks published in the USA based on criteria derived from a historical reconstruction of wave particle duality They come to some revealing conclusions including the fact that very few textbooks discussed issues such as the suggestion by both Einstein and de Broglie and before conclusive experimental evidence was available that wave particle duality existed Other large scale omissions included de Broglie s prescription for observing this duality and the importance of the Davisson Germer experiments as well as the struggle to interpret the experimental data they were collecting Also untouched was the background to the role played by Schrödinger in developing de Broglie s ideas The authors argue that rectifying these deficiencies will arouse students curiosity by giving them the opportunity to engage creatively with the content of science curricula They also assert that it isn t just the experimental data in science that matters but the theoretical insights and unwonted inspirations too In addition the controversies and discrepancies in the theoretical and experimental record are key drivers in understanding the development of science as we know it today

International Handbook of Research in History, Philosophy and Science Teaching Michael R. Matthews, 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy

in investigation of theoretical curricular and pedagogical issues in the teaching of science and mathematics It is contributed to by 130 researchers from 30 countries it provides a logically structured fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines as well as by the philosophy of education more generally The first handbook to cover the field it lays down a much needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science this handbook is uniquely positioned as a locus for the discussion The handbook features sections on pedagogical theoretical national and biographical research setting the literature of each tradition in its historical context It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching and that lessons can be learnt from these engagements for the resolution of current theoretical curricular and pedagogical questions that face teachers and administrators Science educators will be grateful for this unique encyclopaedic handbook Gerald Holton Physics Department Harvard University This handbook gathers the fruits of over thirty years research by a growing international and cosmopolitan community Fabio Bevilacqua Physics Department University of Pavia

Facilitating Conceptual Change in Students' Understanding of the Periodic Table Mansoor Niaz, Marniev Luiggi, 2013-07-16 This book is about how students are taught the periodic table It reviews aspects of the periodic table's development using the history and philosophy of science The teaching method presented in this book is ideal for teaching the subject in high school and at introductory university level Chemistry students taught in this new experimental way are compared with those taught in the traditional way and the author describes how tests found more conceptual responses from the experimental group than the control group The historical aspects of importance to this teaching method are the role of the Karlsruhe Congress of 1860 the accommodation of the chemical elements in the periodic table prediction of elements that were discovered later corrections of atomic weights periodicity in the periodic table as a function of the atomic theory and the accommodation of argon The experimental group of students participated in various activities including discussion of various aspects related to the history and philosophy of science construction of concept maps and their evaluation by the students PowerPoint presentations and interviews with volunteer students

Practical Organic Chemistry Workbook Devanshi Magoo, Anju Srivastava, Sriparna Dutta, 2025-07-11 This book is a unique laboratory workbook which is intended for the use of undergraduate students of various universities pursuing chemistry as the major subject and has been especially tuned as per the latest NEP UGCF syllabus It is also helpful to students pursuing biochemistry and pharmacy at college or university levels Further this workbook provides basic guidance in the essential experimental techniques that an undergraduate student must master to

hone the skills required for training in chemical sciences To the best of our knowledge this is the first time that a workbook for NEP UGCF syllabus is being proposed for helping students acquire prior deep knowledge pertaining to a particular exercise objective and enthuse them by stimulating their scientific thinking through various pre and post lab questions formulated The current pedagogy demands a reformation in the conduct of the practicals under the new syllabi scheme therefore it is anticipated that this manual would be beneficial for the students as well as teachers in rendering the best Besides the book encompasses the fundamentals of all the techniques that would equip the practitioners with specific skills especially on various purification techniques such as recrystallization and chromatography without which one cannot think about proceeding with any synthesis in any of the chemical pharmaceutical textile industries oil and petroleum industries and more

A Time-Release History of the Opioid Epidemic J.N. Campbell, Steven M. Rooney, 2018-06-09 This Brief takes the reader on a chemical journey by following the history for over two centuries of how an opiate became an opioid thus spawning an empire and a series of crises These imperfect resemblances of alkaloids are both natural and synthetic substances that particularly in America are continually part of a growing concern about overuse This seemed an inviting prospect for those in pain but as the ubiquitous media coverage continues to lay bare the levels of abuse point to the fact that perhaps an epidemic is upon us if not a culture war Seeking answers to how and why this addiction crisis transpired over two hundred years of long development this Brief examines the role that the chemistry laboratory played in turning patients into consumers By utilizing a host of diverse sources this Brief seeks to trace the design and the production of opioids and their antecedents over the past two centuries From the isolation and development of the first alkaloids with morphine that relieved pain within the home and on the battlefield to the widespread use of nostrums and the addiction crisis that ensued to the dissemination of drugs by what became known as Big Pharma after the World Wars and finally to competition from home made pharmaceuticals the progenitor was always in some form a type of chemistry lab At times the laboratory pressed science to think deeply about society's maladies such as curing disease and alleviating pain in order to look for new opportunities in the name of progress Despite the best intentions opioids have created a paradox of pain as they were manipulated by creating relief with synthetic precision and influencing a dystopian vision Thus influence came in many forms from governments from the medical community and from the entrepreneurial aspirations of the general populace For better but mostly for worse all played a role in changing forever the trajectory of what started with the isolation of a compound in Germany Combining chemistry and history in a rousing new long form narrative that even broadens the definition of a laboratory the origins and future of this complicated topic are carefully examined

Reconstruction of Wave-Particle Duality and its Implications for General Chemistry Textbooks Mansoor Niaz, Cecilia Marciano, 2012-05-06 It goes without saying that atomic structure including its dual wave particle nature cannot be demonstrated in the classroom Thus for most science teachers especially those in physics and chemistry the textbook is their key resource and their students core

source of information Science education historiography recognizes the role played by the history and philosophy of science in developing the content of our textbooks and with this in mind the authors analyze more than 120 general chemistry textbooks published in the USA based on criteria derived from a historical reconstruction of wave particle duality They come to some revealing conclusions including the fact that very few textbooks discussed issues such as the suggestion by both Einstein and de Broglie and before conclusive experimental evidence was available that wave particle duality existed Other large scale omissions included de Broglie s prescription for observing this duality and the importance of the Davisson Germer experiments as well as the struggle to interpret the experimental data they were collecting Also untouched was the background to the role played by Schrödinger in developing de Broglie s ideas The authors argue that rectifying these deficiencies will arouse students curiosity by giving them the opportunity to engage creatively with the content of science curricula They also assert that it isn t just the experimental data in science that matters but the theoretical insights and unwonted inspirations too In addition the controversies and discrepancies in the theoretical and experimental record are key drivers in understanding the development of science as we know it today The Oxford Handbook of Comparative

Environmental Law Emma Lees,Jorge E. Viñuales,2019-04-25 This Handbook is the first comprehensive account of comparative environmental law It examines in detail the methodological foundations of the discipline as well as the substance of environmental law across countries from four vantage points country studies from all continents responses to common problems including air pollution water management nature conservation genetically modified organisms climate change and energy chemicals waste foundational components of environmental law systems including principles property rights administrative and judicial organisation command and control regulation market mechanisms informational techniques and liability mechanisms and common interactions of environmental protection with the broader public private and criminal law contexts The volume brings together the foremost authorities in this field from around the world to provide a concise self contained and technically rigorous account of environmental law as a single overall system *Advances in Catalysis*

,2020-11-25 *Advances in Catalysis* Volume 67 fills the gap between journal papers and textbooks across the diverse areas of catalysis research For more than 60 years this series has dedicated itself to record and present the latest progress in the field of catalysis providing the scientific community with comprehensive and authoritative reviews This series is an invaluable and comprehensive resource for chemical engineers and chemists working in the field of catalysis in both academia and industry with this release focusing on solid acids surface acidity and heterogeneous acid catalysis Contains authoritative reviews written by experts in the field Explores topics that reflect progress in the field such as catalyst synthesis catalyst characterization catalytic chemistry reaction engineering computational chemistry and physics Provides insightful and critical articles that are fully edited to suit various backgrounds **Neurorights and the Era of Neurotechnologies**

Alisson Alexandro Possa,2025-06-12 This book provides an in depth study on the theory of fundamental rights and the legal

challenges posed by new technologies with a particular focus on neurotechnologies and neurorights The book begins with an overview of the evolution of neuroscience and neurotechnology highlighting the current challenges these advancements pose to contemporary legal frameworks It also discusses the potential for widespread adoption of these technologies driven by significant investments from tech companies The first chapter delves into the development of neuroscience and neurotechnology emphasizing the legal implications and future concerns associated with their mass adoption It explores how these technologies are being integrated into society and the legal challenges they present The second chapter examines the concept of neurorights identifying the legal objects these rights aim to protect and the new risks introduced by neurotechnologies It provides a comprehensive review of the main neurorights proposals from recent decades with a detailed analysis of the theoretical framework proposed by Marcello Ienca and Roberto Andorno in 2017 Their proposal includes four new human rights cognitive freedom mental privacy mental integrity and psychological continuity The final chapter analyzes the relationship between neurorights and existing constitutional protections focusing on the protection of human dignity It discusses the right to free development of personality physical and psychological integrity and privacy and data protection The chapter draws on theories of fundamental rights from Brazilian constitutionalists to provide a thorough examination of these issues The book offers a broad analysis of the main neurorights proposals by international researchers comparing them with the fundamental rights recognized in the Brazilian Constitution It aims to determine whether new fundamental rights are necessary to protect Brazilian citizens from the potential harms of neurotechnology This study is essential for researchers in neuroethics neurorights and fundamental rights providing valuable insights into the intersection of law and emerging technologies

Non-thermal Processing of Major Food Macromolecules Seid Reza Falsafi, Hadis Rostamabadi, Navin Kumar Rastogi, 2025-06-09 Non thermal Processing of Major Food Macromolecules provides comprehensive knowledge on state of the art approaches utilized to process foods and or modify their physicochemical structural along with the technofunctional attributes of food macromolecules i e protein starch lipids through novel non thermal processing techniques Sections explore the impact of non thermal processing on proteins starches and on lipids and present the challenges for the food application of non thermal processing treatments thus suggesting how to push the food application of these architectures forward around the world Edited by a team of experts in the field this book is a great resource for researchers and industry personnel working in the various fields of non thermal processing treatments particularly in the food areas Discusses the effects of non thermal processing on food macromolecules Includes the following techniques sonication high pressure processing ozonation PEF irradiation and cold plasma treatment Presents the regulatory considerations for implementation of non thermal processing Covers safety issues and health risks associated with the use of non thermal processing techniques Offers new information on how non thermal processing treatment of foods can affect consumer acceptance

Real Science in Clear English Cathryn Roos, Gregory Roos, 2019-08-07 This book is a timely go to

resource for any professionals wishing to communicate with the growing number of readers whose first language is not English. It highlights the potential language difficulties these readers face and provides guidelines and tools for overcoming them. The guidelines show how to convey complicated information clearly without affecting the integrity of the subject matter while the practical before and after examples clearly illustrate how using these guidelines improves scientific texts. The book also includes text evaluation tools that allow writers to rapidly assess the readability of their materials. It is based on theory and the authors' extensive experience in producing highly readable English texts for L2 readers who struggle with materials that were originally prepared for L1 readers.

Understanding the Nature of Science by Chemistry 201

Students at A.U.B. Manahel Mohammad Bitar, American University of Beirut. Faculty of Arts and Sciences. Department of Education, 1986

ISE CHEMISTRY MARTIN. AMATEIS SILBERBERG (PATRICIA.), Martin Stuart Silberberg, Patricia Amateis, 2020

Understanding Chemistry Chintamani Nagesa Ramachandra Rao, 2010. This is the international edition of Prof Rao's popular science book, an elementary introduction intended for high school students and others interested in chemistry. Topics such as environment, energy, food, and water are included. There are also life sketches of chemists and procedures for a few experiments.

The Iron(III) Thiocyanate Reaction Kevin C. de Berg, 2019-11-13. This Brief presents an historical investigation into the reaction between ferric ions and thiocyanate ions which has been viewed in different ways throughout the last two centuries. Historically, the reaction was used in chemical analysis and to highlight the nature of chemical reactions, the laws of chemistry, models and theories of chemistry, chemical nomenclature, mathematics, and data analysis and instrumentation which are important ingredients of what one might call the nature of chemistry. Using the history of the iron(III) thiocyanate reaction as a basis, the book's main objective is to explore how chemistry develops its own knowledge base, how it assesses the reliability of that base, and how some important tools of the trade have been brought to bear on a chemical reaction to achieve understanding, a worthwhile goal of any historical investigation.

The Nature of Chemistry, 1984

The Nature of Chemistry Open University. Nature of Chemistry Course Team, 1977

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