Mansoor Niaz · Arelys Maza

Nature of Science in General Chemistry Textbooks



Mansoor Niaz, Cecilia Marcano

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 **Evolving Nature of Objectivity in the History of Science and its Implications for Science** the Nature of 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 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 thatthe 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

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 Schr dinger 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 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 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 and Mechanics Victor A. Sadovnichiy, Michael Z. Zgurovsky, 2018-11-29 In this book international expert authors provide solutions for modern fundamental problems including the complexity of computing of critical points for set valued mappings the behaviour of solutions of ordinary differential equations partial differential equations and difference equations or the development of an abstract theory of global attractors for multi valued impulsive dynamical systems These abstract mathematical approaches are applied to problem solving in solid mechanics hydro and aerodynamics optimization decision making theory and control theory This volume is therefore relevant to mathematicians as well as engineers working at the interface of these fields Information Loss in Deterministic Signal Processing Systems Bernhard C. Geiger, Gernot Kubin, 2017-07-02 This book introduces readers to essential tools for the measurement and analysis of information loss in signal processing systems Employing a new information theoretic systems theory the book analyzes various systems in the signal processing engineer s toolbox polynomials quantizers rectifiers linear filters with and without quantization effects principal components analysis multirate systems etc The user benefit of signal processing is further highlighted with the concept of relevant information loss Signal or data processing operates on the physical representation of information so that users can easily access and extract that information However a fundamental theorem in information theory data processing inequality states that deterministic processing always involves information loss These measures form the basis of a new information theoretic systems theory which complements the currently prevailing approaches based on second order statistics such as the mean squared error or error energy This theory not only provides a deeper understanding but also

extends the design space for the applied engineer with a wide range of methods rooted in information theory adding to existing methods based on energy or quadratic representations <u>Creativity and Innovation</u> Simona Doboli, Jared B. Kenworthy, Ali A. Minai, Paul B. Paulus, 2022-01-01 This book focuses on the emergence of creative ideas from cognitive and social dynamics In particular it presents data models and analytical methods grounded in a network dynamics approach It has long been hypothesized that innovation arises from a recombination of older ideas and concepts but this has been studied primarily at an abstract level In this book we consider the networks underlying innovation from the brain networks supporting semantic cognition to human networks such as brainstorming groups or individuals interacting through social networks and relate the emergence of ideas to the structure and dynamics of these networks Methods described include experimental studies with human participants mathematical evaluation of novelty from group brainstorming experiments neurodynamical modeling of conceptual combination and multi agent modeling of collective creativity. The main distinctive features of this book are the breadth of perspectives considered the integration of experiments with theory and a focus on the combinatorial emergence of ideas

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