

Chlorine can be prepared in the laboratory by the reaction of manganese dioxide with hydrochloric acid, HCl(aq) , as described by the chemical equation



How much $\text{MnO}_2(\text{s})$ should be added to excess HCl(aq) to obtain 115 mL $\text{Cl}_2(\text{g})$ at 25 °C and 775 Torr?

mass of MnO_2 :

13

g

Mcquarrie General Chemistry 4th Edition

J. J. Lagowski



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General Chemistry Donald A. McQuarrie, Stanley Gill, 2011-06-15 This Fourth Edition of McQuarrie's classic text offers a thorough revision and a quantum leap forward from the previous edition. Taking an atoms first approach it promises to be another ground breaking text in the tradition of McQuarrie's many previous works. This outstanding new text available in a soft cover edition offers professors a fresh choice and outstanding value.

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.

Chemistry Education and Contributions from History and Philosophy of Science Mansoor Niaz, 2015-12-23 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 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 VB MO 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 Saere K and Louis P Fiedler Chair in Chemistry Director The Lise Meitner Minerva Center for Computational Quantum Chemistry The Hebrew University of Jerusalem ISRAEL 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 **Feyerabend's Epistemological Anarchism** Mansoor Niaz, 2020-01-27 This book argues that the traditional image of Feyerabend is erroneous and that contrary to common belief he was a great admirer of science. It shows how Feyerabend presented a vision of science that represented how science really works. Besides giving a theoretical framework based on Feyerabend's philosophy of science, the book offers criteria that can help readers to evaluate and understand research reported in important international science education journals with respect to Feyerabend's epistemological anarchism. The book includes an evaluation of general chemistry and physics textbooks. Most science curricula and textbooks provide the following advice to students: Do not allow theories in contradiction with observations and all scientific theories must be formulated inductively based on experimental facts. Feyerabend questioned this widely prevalent premise of science education in most parts of the world and in contrast gave the following advice: Scientists can accept a hypothesis despite experimental evidence to the contrary and scientific theories are not always consistent with all the experimental data. No wonder Feyerabend became a controversial philosopher and was considered to be against rationalism and anti-science. Recent research in philosophy of science, however, has shown that most of Feyerabend's philosophical ideas are in agreement with recent trends in the 21st century. Of the 120 articles from science education journals evaluated in this book, only 9% recognized that Feyerabend was presenting a plurality of perspectives based on how science really works. Furthermore, it has been shown that Feyerabend could even be considered as a perspectival realist. Among other aspects, Feyerabend emphasized that in order to look for breakthroughs in science, one does not have to be complacent about the truth of the theories but rather has to look for opportunities to break rules or violate categories. Mansoor Niaz carefully analyses references to Feyerabend in the literature and displays the importance of Feyerabend's philosophy in analyzing historical episodes. Niaz shows through this remarkable book a deep understanding to the essence of science. Calvin Kalman, Concordia University, Canada. In this book, Mansoor Niaz explores the antecedents, context, and features of Feyerabend's work and offers a more nuanced understanding, then reviews and considers its reception in the science education and philosophy of science literature. This is a valuable contribution to scholarship about Feyerabend with the potential to inform further research as well as science education practice. David Geelan Griffith, University of Australia.

Accidental Tim James, 2024-04-04 Nominated for the best popular science book of 2024 by Smart Book. Who said science was dry? Certainly not Tim James. New York Post: James writes with infectious enthusiasm and optimism. Kirkus Reviews: A science teacher by profession, Mr. James knows how to get his audience's attention. Wall Street Journal: Humorous yet deep. Professor Charles Antoine: A rip-roaring adventure through science gone wrong and accidentally changing humanity, mostly for the better. We may imagine that science is a process of breakthroughs and light bulb moments. But in reality, science goes wrong 99% of the time. Almost every idea a scientist comes up with is quickly disproved by a failed experiment or rival research. Science moves at a rate of inches per decade and we often like it that way. But occasionally, just occasionally, a complete fluke happens and changes everything as

we know it From an untimely sneeze in a petri dish leading to the groundbreaking creation of antibiotics to the incredible discovery of microwaves via melted chocolate Accidental is a rip roaring adventure through science gone wrong and accidentally changing humanity for the better

Handbook of Photosynthesis Mohammad Pessarakli, 2024-07-31 The Fourth Edition of the Handbook of Photosynthesis offers a unique and comprehensive collection of topics in the field of photosynthesis serving as an invaluable resource in this field With contributions from 95 scientists and experts from over 20 countries this volume has been divided into 13 parts each serving independently to facilitate the understanding of the material

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Principles of Qualitative Inorganic Analysis: Precipitation, Separation and Identification of Cations Huda S. Alhasan, Nadiyah Alahmadi, 2021-01-26 This book provides notes for basic laboratory experiments in qualitative analysis of cations The book introduces readers to basic methods and laboratory safety Subsequent chapters cover six groups of cations Each chapter explains important details that are required to understand how a particular analytical method works for detecting cations in samples starting from sedimentation and ending with the identification

Key Features Simple reader friendly format introductory notes and summary Covers several groups of metals Appendix for handy reference with tables and references This is a useful textbook for early chemistry students and teachers as it equips the readers with sufficient information required to analyze chemical samples and deduce the presence of specific cations as part of laboratory coursework

The British Library General Catalogue of Printed Books, 1986 to 1987 British Library, 1988

The Cumulative Book Index, 1992 A world list of books in the English language

Gems, Granites, and Gravels R. V. Dietrich, Brian J. Skinner, 1990 Every person on earth uses either directly or indirectly ten metric tons of minerals each year So write Dr R V Dietrich and Dr Brian J Skinner in their new book Gems Granites and Gravels Minerals and mineral products are involved in all aspects of our lives we depend on them to keep us alive and ensure the continuity of our society As a consequence they have been a source of fascination and study throughout human history In this book Drs Dietrich and Skinner consider not only the beauty of minerals and rocks but also their utility and their roles in our everyday well being Gems Granites and Gravels is a valuable introduction to mineralogy and to related specialities such as petrology

the study of rocks crystallography the study of crystals and soil science Discoveries in these fields are described in a historical context while the authors explain what minerals and rocks are how they are distributed around the world how we depend on them and where to see the most beautiful specimens of both minerals and rocks This book will appeal to anyone interested in natural history and curious about rocks and minerals including rock and mineral collectors students of geology and professional geologists

Chemistry Henry Dorin,1987 **El-Hi Textbooks & Serials in Print** Bowker Editorial Staff,2004-02 **Understanding Organic Chemistry** Margot K. Schumm,1987 **Subject Guide to Books in Print**,1997 **Recording for the Blind & Dyslexic, ... Catalog of Books**,1996 Paperbound Books in Print 1995 Reed Reference Publishing,Reference Reed,1995-12 Chemistry: D-J J. J. Lagowski,2004 This is a reference tool designed to guide the reader through all the aspects of chemistry Showing the myriad of ways in which chemistry plays a role both seen and unseen in our daily lives this work also makes the foundations of chemistry accessible for the lay reader

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