

Solubility Product Constant Lab Activity

Scientific notes and summaries of investigations in geology, hydrology, and related fields.

Introduces the fundamental principles of applied Earth science needed for engineering practice, with case studies, exercises, and online solutions.

Experiments in Nuclear Science is an introductory-level laboratory manual providing hands-on opportunities for developing insights into the origins and properties of nuclear radiations, their interactions with matter, their detection and measurement, and their applications in the physical and life sciences. Based on experiments successfully perform

Providing fundamental discussion of regolith properties and chemistry, this book considers many landscape situations and features, whilst linking process to position, geochemistry and time. Presenting information from an Australian perspective it provides new insights into the subject, which are developed away from the yoke of traditional Northern Hemisphere ideas and concepts. *

Presents a new approach to the problems of understanding regolith geology and landscapes * Presents the general aspects and principles of regolith * Chapters present views on landscapes and their evolution, the nature of minerals, the behaviour of water at a landscape level and the exploration of water behaviour at various scales in regolith materials * Investigates methods of conveying information about regolith via maps and in GIS packages

This Book Is Organized Into Thirteen Sections, Each Dealing With A Particular Area In Physical Chemistry. Each Section Starts Off With A Short Biography Of A Famous Scientist Associated With That Field. The Theory Behind The Experimental Work Is Then Covered, Followed By The Experimental Procedures Themselves. A Few Review Questions Help You To Gauge Your Understanding Of The Topics Covered. Each Section Has Its Own Appendix That Contains Useful Data, Hints To Solve The Review Questions And The Expected Experimental Results. Each Section Is Designed To Be A Self-Sufficient Unit Found In One Place In The Book. The Book Would Serve As An Excellent Text-Cum-Reference For Students Pursuing Post-Graduate Degree In Chemistry. Under Graduate Students Of Chemistry (Hons) Would Also Find It Extremely Rewarding And Inspiring.

This textbook provides a complete introduction to Hydrogeology. It is a comprehensive reference for earth science professionals involved in groundwater exploitation as well as for geotechnical engineers. This English translation of the German textbook "Hydrogeologie" by Hölting & Coldewey, which has been published in its 8th edition, provides insights into the sources and reservoirs of groundwater, the dynamics of fluid flow, and the physical and chemical composition of groundwater. It also gives an overview about the economic value of groundwater and its exploitation and use. A consistent use of the internationally accepted SI units as well as the formula symbols in the text contributes to the understandability.

The second edition of Analytical Chemistry for Technicians provides the "nuts and bolts" of analytical chemistry and focuses on the practical aspects for training a technician-level laboratory worker. This edition presents new and expanded chapters, innumerable questions and problems, and modified experiments that present a fresh and challenging approach. Some of the topics that have been expanded include chemical equilibrium, chromatography, Kjeldahl method, and molarity and moles where EDTA and water hardness calculations are concerned. New discussions of the Ag/AgCl and combination pH electrodes have been added, while the discussion of ion-selective electrodes has been expanded. The chapter introducing instrumental analysis and computers now includes discussions of "y = mx + b" and the method of least squares. The book also includes discussions of FTIR, topics of NMR, and mass spectrometry, which are found in the new infrared spectrometry chapter.

Modern Nuclear Chemistry provides up-to-date coverage of the latest research as well as examinations of the theoretical and practical aspects of nuclear and radiochemistry. Includes worked examples and solved problems. Provides comprehensive information as a practical reference. Presents fundamental physical principles, in brief, of nuclear and radiochemistry.

This book is intended to serve as a text for an introductory course in geochemistry for undergraduate/graduate students with at least an elementary level background in earth sciences, chemistry, and mathematics. The text, containing 83 tables and 181 figures, covers a wide variety of topics ranging from atomic structure to chemical and isotopic equilibria to modern biogeochemical cycles which are divided into four interrelated parts: Crystal Chemistry; Chemical Reactions (and biochemical reactions involving bacteria); Isotope Geochemistry (radiogenic and stable isotopes); and The Earth Supersystem, which includes discussions pertinent to the evolution of the solid Earth, the atmosphere, and the hydrosphere. In keeping with the modern trend in the field of geochemistry, the book emphasizes computational techniques by developing appropriate mathematical relations, solving a variety of problems to illustrate application of the mathematical relations, and leaving a set of questions at the end of each chapter to be solved by students. However, so as not to interrupt the flow of the text, involved chemical concepts and mathematical derivations are separated in the form of boxes. Supplementary materials are packaged into ten appendixes that include a standard state (298.15 K, 1 bar) thermodynamic data table and a listing of answers to selected chapter end questions. Additional resources for this book can be found at: www.wiley.com/go/misra/geochemistry.

The authoritative introduction to natural water chemistry THIRD EDITION Now in its updated and expanded Third Edition, Aquatic Chemistry remains the classic resource on the essential concepts of natural water chemistry. Designed for both self-study and classroom use, this book builds a solid foundation in the general principles of natural water chemistry and then proceeds to a thorough treatment of more advanced topics. Key principles are illustrated with a wide range of quantitative models, examples, and problem-solving methods. Major subjects covered include: * Chemical Thermodynamics * Solid-Solution Interface and Kinetics * Trace Metals * Acids and Bases * Kinetics of Redox Processes * Dissolved Carbon Dioxide * Photochemical Processes * Atmosphere-Water Interactions * Kinetics at the Solid-Water * Metal Ions in Aqueous Solution Interface * Precipitation and Dissolution * Particle-Particle Interaction * Oxidation and Reduction * Regulation of the Chemical * Equilibria and Microbial Mediation Composition of Natural Waters

This Manual accompanies the Textbook, teaching radioanalytical chemistry to seniors and graduate students. The manual can be used in conjunction with the textbook to teach a 3-hour lecture course and a 6-hour laboratory. The experiments address a range of practical aspects in the radiochemistry laboratory: use of laboratory and radiation detection equipment, performing specific analyses for radio-iodine, radio-strontium, uranium, and plutonium.

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