

Radioanalysis in Geochemistry (Developments in Geochemistry)

Das, H.A.

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Radioanalysis In Geochemistry

Alena Mudroch



Radioanalysis In Geochemistry:

Radioanalysis in Geochemistry H. A. Das, A. Faanhof, H. A. van der Sloot, 1989 Radioanalysis is indispensable to the present day geologist and geochemist due to its three main applications activation analysis radiotracer experiments and the measurement of natural radioactivity The aim of this monograph is to summarize that part of the use of radioanalysis which emerges from a confrontation with other analytical methods After an introductory chapter on the scope of radioanalysis and the aim of the book Chapter 2 deals with sampling procedures for rocks minerals sediments and water In activation analysis the emphasis is on neutron activation and related prompt methods with either the nuclear reactor or the neutron generator The use of the cyclotron and the linear accelerator come into view only when they offer unique or superior results Distinction is made between the purely instrumental procedures Chapter 3 and those which imply pre or post irradiation separations Elements are discussed according to the groups of the periodic table Radiotracer experiments are described based on mass and activity balances Only those radiotracers which are commonly available are considered

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Modern Analytical Geochemistry Robin Gill, 2014-09-12 A comprehensive handbook of analytical techniques in geochemistry which provides the student and the professional with an understanding of the wide spectrum of different analytical methods that can be applied to Earth and environmental materials together with a critical appreciation of their relative merits and limitations

Geochemistry and Fluid Flow Larry W. Lake, Steven L. Bryant, Aura N. Araque-Martinez, 2002 This book is a culmination of a research project conducted at The University of Texas at Austin UT over the past 20 years It has also been used as a text in a graduate course at UT on geochemistry and flow taught by each of the editors over a period of 10 years The reader will undoubtedly benefit from the knowledge flow that this progression from research project via classroom to text represents

Nuclear Geochemistry Titayeva, 1994-06-23 Nuclear Geochemistry discusses the differentiation of genesis radionuclides including cosmogenic anthropogenic and initial natural radionuclides The book focuses on geochemistry of the radionuclides and their

use in tracing geological processes such as crust mantle interaction exogenic processes natural and antropogenic radiation environment the nuclear environment geochronology thermal regime of the earth rock mineral and mineral deposits genesis and the radiometric prospecting mineral deposits The book will benefit geochemists geologists and ecologists **High Pressure Geochemistry & Mineral Physics** S. Mitra, 2004-12-11 Significant achievements have been made at the cross roads of physics and planetary science In the second half of the twentieth century the discipline of planetary sciences has witnessed three major episodes which have revolutionized its approach and content i the plate tectonic theory ii human landing and discoveries in planetary astronomy and iii the extraordinary technical advancement in high P T studies which have been abetted by a vast improvement in computational methods Using these new computational methods such as first principles including ab initio models calculations have been made for the electronic structure bonding thermal EOS elasticity melting thermal conductivity and diffusivity In this monograph the boundaries of the definitions of a petrologist geochemist geophysicist or a mineralogist have been willfully eliminated to bring them all under the spectrum of high pressure geochemistry when they deal with any material quintessentially a chemical assemblage terrestrial or extraterrestrial under the conditions of high pressure and temperature Thus a petrologist using a spectrometer or any instrument for high pressure studies of a rock or a mineral or a geochemist using them for chemical synthesis and characterization is better categorized as a high pressure geochemist rather than any other kind of disciplinarian The contents of this monograph bring together under one cover apparently disparate disciplines like solid earth geophysics and geochemistry as well as material science and condensed matter physics to present a thorough overview of high pressure geochemistry Indeed such interdisciplinary activities led to the discovery of new phenomena such as high P T behaviour in metal oxides e g Mott transition novel transitions such as amorphization changes in order disorder in crystals and the anomalous properties of oxide melts

Environmental Radioanalysis , 2011-08-26 Environmental Radioanalysis Manual of Physico-Chemical Analysis of Aquatic Sediments Alena Mudroch, 2017-10-05 Because water is one of the most important life supporting media on the planet the quality of aquatic ecosystems is of great interest to the entire world population One of the factors that greatly affects water quality is the condition of the underlying sediment layer The Manual of Physico Chemical Analysis of Aquatic Sediments addresses the best methods for quantitative determination of chemical forms of different elements and compounds bioassessment techniques and determination of physical properties of sediments Essential information for surveying research and monitoring of sediment contamination is covered This manual will aid sediment biologists geochemists limnologists regulatory program managers environmental chemists and toxicologists and environmental consultants in preparing plans for proper remedial action **Radiochemistry and Nuclear Methods of Analysis** William D. Ehmann, Diane E. Vance, 1991-09-10 From nuclear dating methods to nucleosynthesis in stars it s all here The first practical comprehensive guide to the science of radiochemistry Radiochemistry and Nuclear Methods of Analysis is the first thorough and up to date

look for the nonspecialist at the fundamentals of radiochemistry as well as the full range of advances currently made possible by the applications of radioactivity Without an emphasis on high level mathematics or abstruse theoretical physics the book provides a clear fundamentals first look at radioactivity the principles of radioactive decay and nuclear reactions as well as Modern radiochemical instrumentation Nuclear dating methods Methods for the production of radionuclides The use of tracers and nuclear methods of analysis The origin of the chemical elements The biological effects of radiation The book s user friendly instructional format designed for both beginning and advanced students includes numerous end of chapter problems ranging from the simple to complex which familiarize the reader with equations and concepts in the text References to recent monographs available in most college and university libraries provide direction to more specialized literature Invaluable to both students and professionals in search of a practical grasp of the subject Radiochemistry and Nuclear Methods of Analysis is a clear introduction to radioactivity and radionuclear chemistry s principles methods and applications

Elemental Analysis of Airborne Particles Marsha Creatchman,2024-12-06 An increased standard of living in developed and developing countries has brought about a distinct rise in pollution The problem of air pollution has specifically increased the public s awareness of the environmental and health related consequences resulting from modern day industrial technology This detailed collection of works devoted to the most popular methods in elemental analysis of airborne particles offers investigators a comprehensive book on the most common laboratory analytical methods currently used in trace element analysis Discussed are atomic absorption spectrometry inductively coupled plasma atomic emission particle induced gamma ray analysis particle elastic scattering and Rutherford backscattering and neutron activation analysis Specific sections on quality assurance quality control and source receptor modeling have also been included

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Geochemical and Tectonic Evolution of Arc-Backarc Hydrothermal Systems N. Shikazono,2003-07-01 Many Neogene hydrothermal ore deposits

have been formed on and near the Japanese islands from the middle Miocene to the present day and today many subaerial and submarine active geothermal systems are active This book summarizes the geochemical and tectonic features and the evolution of various types of ore deposits and current island arc and backarc hydrothermal systems in Japan starting with the Mesozoic

Instrumental Multi-Element Chemical Analysis Z.B. Alfassi, 2012-12-06 The analysis of materials containing several elements used to be a difficult problem for analytical chemists so a well established sequence of wet chemical qualitative tests were performed to ensure each element was detected Quantitative tests could then be carried out on the sample according to the range of elements present Most analytical chemists were very familiar with these techniques having been taught them from a very early stage in their education and careers The analytical chemist can now call on a range of specialist instrumental techniques which can detect the presence of many elements often simultaneously and often quantitatively providing rapid results on samples which in the past could take days The drawback is that the instruments tend to be expensive suited to particular sample types or matrices and complex in both setting up and in the interpretation of results Furthermore the general analytical chemist may have access and familiarity with only one or two methods Written by an international team of contributors each experts in their particular fields this book familiarizes analytical chemists with the range of elemental analysis techniques to enable them to specify the most appropriate test for any given sample In addition it contains important chapters on sample preparation and quality control essential elements in obtaining accurate and reliable analytical results As such this book will be essential reading for all analytical chemists The techniques of elemental analysis are important in many other disciplines so the book will be of particular interest to those commissioning a wide range of analytical measurements such as chemists geologists environmental scientists and biologists The breadth and depth of coverage will also make the book very useful for advanced students

Nuclear Methods in Mineralogy and Geology Attila Vértes, Sándor Nagy, Károly Süvegh, 2012-12-06 This book appears a century after the discovery of radioactivity It was in 1896 when Henri Becquerel reported his first results about the penetrating radiation which could darken the packed photographic plates The initial fascination of radioactivity e g the discovery of new radioactive elements the first real description of the structure of atoms and their nuclei the applications of radiotracers the high sensitivity of activation analysis etc was followed by the use of atomic bomb in 1945 The mushroom cloud became a symbol of destructive nuclear power And even nuclear energy production which provides about 20% of the world's electricity is overshadowed by radioactive waste However the latest results suggest that the Accelerator Driven Transmutation Technology ADTT will solve this problem since this technique can decrease the lifetime of the fission products comparatively to the human lifespan Practical control of fusion may also be possible in the first decades of the next millennium

Handbook of Neutron Activation Analysis Susan J. Parry, 2003

Methods and Instrumentations: Results and Recent Developments Arnold S. Marfunin, 2013-03-09 All existing introductory reviews of mineralogy are written according to the same algorithm sometimes

called the Dana System of Mineralogy Even modern advanced handbooks which are certainly necessary include basic data on minerals and are essentially descriptive When basic information on the chemistry structure optical and physical properties distinguished features and paragenesis of 200-400 minerals is presented then there is practically no further space available to include new ideas and concepts based on recent mineral studies A possible solution to this dilemma would be to present a book beginning where introductory textbooks end for those already familiar with the elementary concepts Such a volume would be tailored to specialists in all fields of science and industry interested in the most recent results in mineralogy This approach may be called Advanced Mineralogy Here an attempt has been made to survey the current possibilities and aims in mineral matter investigations including the main characteristics of all the methods the most important problems and topics of mineralogy and related studies The individual volumes are composed of short condensed chapters Each chapter presents in a complete albeit condensed form specific problems methods theories and directions of investigations and estimates their importance and strategic position in science and industry

Geological Sequestration of Carbon Dioxide Luigi Marini, 2006-10-12 The contents of this monograph are two scope First it intends to provide a synthetic but complete account of the thermodynamic and kinetic foundations on which the reaction path modeling of geological CO₂ sequestration is based In particular a great effort is devoted to review the thermodynamic properties of CO₂ and of the CO₂-H₂O system and the interactions in the aqueous solution the thermodynamic stability of solid product phases by means of several stability plots and activity plots the volumes of carbonation reactions and especially the kinetics of dissolution-precipitation reactions of silicates oxides hydroxides and carbonates Second it intends to show the reader how reaction path modeling of geological CO₂ sequestration is carried out To this purpose the well known high quality EQ3/6 software package is used Setting up of computer simulations and obtained results are described in detail and used EQ3/6 input files are given to guide the reader step by step from the beginning to the end of these exercises Finally some examples of reaction path and reaction transport modeling taken from the available literature are presented The results of these simulations are of fundamental importance to evaluate the amounts of potentially sequestered CO₂ and their evolution with time as well as the time changes of all the other relevant geochemical parameters e.g. amounts of solid reactants and products composition of the aqueous phase pH redox potential effects on aquifer porosity In other words in this way we are able to predict what occurs when CO₂ is injected into a deep aquifer Provides applications for investigating and predicting geological carbon dioxide sequestration Reviews the geochemical literature in the field Discusses the importance of geochemists in the multidisciplinary study of geological carbon dioxide sequestration

Energy Research Abstracts, 1993 Determination of Trace Elements Zeev B. Alfassi, 2008-07-11 The best way to determine trace elements This easy to use handbook guides the reader through the maze of all modern analytical operations Each method is described by an expert in the field The book highlights the advantages and disadvantages of individual techniques and enables pharmacologists environmentalists material scientists and food

industry to select a judicious procedure for their trace element analysis

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