

# Basic steps for radiochemical analysis by alpha spectrometry

- ✓ Sample preparation.
- ✓ Pre-concentration.
- ✓ Chemical separation.
- ✓ Source preparation.
- ✓ Counting and analysis of spectrum.

# Radiometric Dating By Alpha Spectrometry

**Marcel A. Müller**



## **Radiometric Dating By Alpha Spectrometry:**

**Radiometric dating by alpha spectrometry on uranium series nuclides** Albert van der Wyk,1987      **Radiometric Dating by Alpha Spectrometry on Uranium Series Nuclides** van der Wijk (Albert),1987      **Radiometric Dating by Alpha Spectrometry on Uranium Series Nuclides** Albert van der Wijk,1987      **Energy Research Abstracts** ,1992

Archaeological Chemistry Mary Virginia Orna,Seth C. Rasmussen,2020-11-24 Highlighting its broad multidisciplinary nature this volume presents new research and applications in the field of archaeological chemistry which focuses on the application of chemical techniques to the study of the material remains of the cultures of historical or prehistorical peoples Consisting of 18 chapters written by a diverse collection of international authors this volume highlights new research in archaeological chemistry and shows how the field combines aspects of analytical chemistry history archaeology and materials science Current efforts to include archaeological chemistry in science education are also presented As this book utilizes current scientific advances to better understand our past it will be of broad general interest to the chemical archaeological and historical communities      **Methods in Biogeochemistry of Wetlands** Ronald D. DeLaune,K. Remesh Reddy,Curtis J. Richardson,J. Patrick Megonigal,2020-01-22 Wetlands occur at the interface of upland and aquatic ecosystems making them unique environments that are vital to ecosystem health But wetlands are also challenging to assess and understand Wetland researchers have developed specialized analytical methods and sampling techniques that are now assembled for the first time in one volume More than 100 experts provide key methods for sampling quantifying and characterizing wetlands including wetland soils plant communities and processes nutrients greenhouse gas fluxes redox active elements toxins transport processes wetland water budgets and more      **The Climate of Past Interglacials** F. Sirocko,M. Claussen,T. Litt,M.F. Sanchez-Goni,2006-12-08 Historically climate fluctuations such as the Little Ice Age show that interglacial climate change is not entirely stable but responds to even subtle changes in radiative forcing Through research it has been made clear that even an abrupt change of climate within years is not just a theoretical possibility but has in fact happened in the prehistoric past It is therefore clear that in principle it could happen again Human civilization has exploded under the mild and relatively stable climatic conditions that have prevailed over the last 11 000 years This book focuses on revisiting the past and to study climate and environment in a suite of experiments where boundary conditions are similar but not identical to today so we can learn about the climate environment system its sensitivity thresholds and feedback The palaeoclimate community holds an important key to scientific information on climate change that provides a basis for appropriate adaptation and mitigation strategies The authors of this book have taken up this challenge and summarize their results in this special volume It presents state of the art science on new reconstructions from all spheres of the Earth System and on their synthesis on methodological advances and on the current ability of numerical models to simulate low and high frequency changes of climate environment and chemical cycling related to interglacials Summarizes important information

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**Radioactive Dating**

International Atomic Energy Agency,1963

*Environmental Radionuclides* Klaus Froehlich,2009-09-23

Environmental Radionuclides presents a state of the art summary of knowledge on the use of radionuclides to study processes and systems in the continental part of the Earth s environment It is conceived as a companion to the two volumes of this series which deal with isotopes as tracers in the marine environment Livingston Marine Radioactivity and with the radioecology of natural and man made terrestrial systems Shaw Radioactivity in Terrestrial Ecosystems Although the book focuses on natural and anthropogenic radionuclides radioactive isotopes it also refers to stable environmental isotopes which in a variety of applications especially in hydrology and climatology have to be consulted to evaluate radionuclide measurements in terms of the ages of groundwater and climate archives respectively The basic principles underlying the various applications of natural and anthropogenic radionuclides in environmental studies are described in the first part of the book The book covers the two major groups of applications the use of radionuclides as tracers for studying transport and mixing processes and as time markers to address problems of the dynamics of such systems manifested commonly as the so called residence time in these

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**Selected Water Resources Abstracts**, 1990-07

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