

An Introduction to Optical Dating

The Dating of Quaternary Sediments by the
Use of Photon-Stimulated Luminescence

M. J. AITKEN

OXFORD SCIENCE PUBLICATIONS

Introduction To Optical Dating

Winfried Henke, Ian Tattersall



Introduction To Optical Dating:

Introduction to Optical Dating M. J. Aitken, 1998-07-09 Optical dating is a rapidly developing technique used primarily in the dating of sediments deposited in the last 500 000 or more years As such increasing numbers of Quaternary geologists physical geographers archaeologists and anthropologists are now relying on the results produced Written by one of the foremost experts on optical dating this book aims to bring together in a coherent whole the various strands of research that are ongoing in the area It gives beginners an introduction to the technique as well as acting as a valuable source of up to date references The text is divided into three parts main text technical notes and appendices In this way the main text is accessible by those researchers with a limited knowledge of physics with the technical notes providing depth of understanding for those who require it The first part of the book is concerned with basic notions and an introduction to the standard techniques as well as several illustrative case histories It goes on to then discuss the limitations of the technique and factors affecting reliability *Introduction to Optical Dating* Martin Jim Aitken, 2023 Optical dating is used mainly in the dating of sediments deposited in the last 500 000 or more years This book brings together various strands of research giving beginners an introduction to the technique and an up to date reference **An Introduction to Optical Dating** , 1998

Geochronology Nils-Axel Morner, 2014-07-25 Chronology is the backbone of history and there is a wise saying stating there is no history without a chronology Earths evolutionary history is built up by geochronology i e time benchmarks upon which the geological history is built up step by step over its total time period of about 4 5 billion years The first marker in this history is the Jack Hills zircon from Australia dated at about 4 4 GA The most detailed records come from seasonal changes within annual varves Stratigraphy provides the basic chronological ordering of layers by layers units by units fossil assemblage by assemblage varves by varves growth zone by growth zone etc The radiometric techniques implied the introduction of absolute age determinations This book includes a combination of methodological presentations and related case studies from where we learn about practical problems and achievements Therefore the book should be of basic interest both for scientists in their practical in field and laboratory as well as for general educational purpose **Broadening Horizons** Bart Ooghe, Geert Verhoeven, 2009-10-02 Broadening Horizons multidisciplinary approaches to landscape study presents nine papers on physical landscape research in the Mediterranean and the Near East Giving prime place to young researchers working in this field it brings together highly diverse applications ranging from ground survey to semi automated remote sensing from cuneiform studies to palynology and from human geography to paradigm re evaluation Aimed at a public of both students and scholars with a shared interest in the study of past landscapes its aims are dual In presenting ongoing research which applies various techniques available to the student of landscape it aims to add to the practice of these sub fields As such it may also provide a first insight into the particular methodologies addressed In addition by extending its gaze beyond geographical temporal or disciplinary constraints Broadening Horizons addresses the need for a

continued awareness of the many different methods and conceptualisations existing in this field It hopes to illustrate some of the highly diverse ways in which to approach physical landscapes of the past and by doing so stress once again the value of continued cooperation between the many specialisations that make up this ever expanding area of research This is a very positive endeavour to improve cross discipline awareness and collaboration It is organised as a multi faceted reader highlighting some of the wide ranging ways in which the past landscapes of the Mediterranean and Near East can be approached It provides a significant contribution to the field of landscape research and should prove of value to specialists and beginning researchers alike both for its specific topics and its multidisciplinary approach Professor Dr M Tanret Head of the Dept of Languages and Cultures of the Near East Ghent University The Oxford Handbook of the Archaeology and Anthropology of Rock Art Bruno David,Ian J. McNiven,2018-10-17 Rock art is one of the most visible and geographically widespread of cultural expressions and it spans much of the period of our species existence Rock art also provides rare and often unique insights into the minds and visually creative capacities of our ancestors and how selected rock outcrops with distinctive images were used to construct symbolic landscapes and shape worldviews Equally important rock art is often central to the expression of and engagement with spiritual entities and forces and in all these dimensions it signals the diversity of cultural practices across place and through time Over the past 150 years archaeologists have studied ancient arts on rock surfaces both out in the open and within caves and rock shelters and social anthropologists have revealed how people today use art in their daily lives The Oxford Handbook of the Archaeology and Anthropology of Rock Art showcases examples of such research from around the world and across a broad range of cultural contexts giving a sense of the art s regional variability its antiquity and how it is meaningful to people in the recent past and today including how we have ourselves tended to make sense of the art of others replete with our own preconceptions It reviews past present and emerging theoretical approaches to rock art investigation and presents new cutting edge methods of rock art analysis for the student and professional researcher alike **Optically Stimulated Luminescence Dosimetry** L. Boetter-Jensen,S.W.S. McKeever,A.G. Wintle,2003-10-24 Optically Stimulated Luminescence OSL has become the technique of choice for many areas of radiation dosimetry The technique is finding widespread application in a variety of radiation dosimetry fields including personal monitoring environmental monitoring retrospective dosimetry including geological dating and accident dosimetry space dosimetry and many more In this book we have attempted to synthesize the major advances in the field covering both fundamental understanding and the many applications The latter serve to demonstrate the success and popularity of OSL as a dosimetry method The book is designed for researchers and radiation dosimetry practitioners alike It delves into the detailed theory of the process from the point of view of stimulated relaxation phenomena describing the energy storage and release processes phenomenologically and developing detailed mathematical descriptions to enable a quantitative understanding of the observed phenomena The various stimulation modes continuous wave pulsed or linear

modulation are introduced and compared The properties of the most important synthetic OSL materials beginning with the dominant carbon doped Al₂O₃ and moving through discussions of other less well studied but nevertheless important or potentially important materials The OSL properties of the two most important natural OSL dosimetry material types namely quartz and feldspars are discussed in depth The applications chapters deal with the use of OSL in personal environmental medical and UV dosimetry geological dating and retrospective dosimetry accident dosimetry and dating Finally the developments in instrumentation that have occurred over the past decade or more are described The book will find use in those laboratories within academia national institutes and the private sector where research and applications in radiation dosimetry using luminescence are being conducted Potential readers include personnel involved in radiation protection practice and research hospitals nuclear power stations radiation clean up and remediation food irradiation and materials processing security monitoring geological and archaeological dating luminescence studies of minerals etc

Handbook of Paleoanthropology Winfried Henke,Ian Tattersall,2007-05-10 This 3 volume handbook brings together contributions by the world s leading specialists that reflect the broad spectrum of modern palaeoanthropology thus presenting an indispensable resource for professionals and students alike Vol 1 reviews principles methods and approaches recounting recent advances and state of the art knowledge in phylogenetic analysis palaeoecology and evolutionary theory and philosophy Vol 2 examines primate origins evolution behaviour and adaptive variety emphasizing integration of fossil data with contemporary knowledge of the behaviour and ecology of living primates in natural environments Vol 3 deals with fossil and molecular evidence for the evolution of Homo sapiens and its fossil relatives

Holocene Land-ocean Interaction and Environmental Change Around the North Sea Geological Society of London,2000 **Encyclopedia of Coastal Science** M. Schwartz,2006-11-08

Honorable Mention Award for Excellence in Scholarly and Professional Publishing Maurice Schwartz Editor of the much acclaimed Encyclopedia of Beaches and Coastal Environments Hutchinson Ross 1982 has now brought forth a new volume with a fresh interdisciplinary approach that includes geomorphology ecology engineering technology oceanography and human activities as they relate to coasts Within its covers the Encyclopedia of Coastal Science includes many aspects of the coastal sciences that are only to be found scattered among scientific literature Being broadly interdisciplinary in its treatment of coasts the Encyclopedia of Coastal Science features contributions by 245 well known international specialists in their respective fields and is abundantly illustrated with line drawings and photographs Not only does this volume offer an extensive number of entries it also includes various appendices an illustrated glossary of coastal geomorphology and extensive bibliographic listings This Encyclopedia thus provides a comprehensive reference work for students professionals as well as informed lay readers

Optically Stimulated Luminescence Eduardo G. Yuhikara,Stephen W. S. McKeever,2011-02-16 Optically stimulated luminescence has developed into one of the leading optical techniques for the measurement and detection of ionizing radiation This text covers in a readable manner advanced modern applications of the

technique how it can play a useful role in different areas of dosimetry and how to approach the challenges presented when working with optically stimulated luminescence The six chapters are as follows Introduction including a short history of OSL and details of successful applications Theory and Practical Aspects Personal Dosimetry Space Dosimetry Medical Dosimetry Other Applications and Concepts including retrospective and accident dosimetry environmental monitoring and UV dosimetry Throughout the book the underlying theory is discussed on an as needed basis for a complete understanding of the phenomena but with an emphasis of the practical applications of the technique The authors also give background information and relevant key references on each method inviting the reader to explore deeper into the subject independently Postgraduates researchers and those involved with radiation dosimetry will find this book particularly useful The material is both relevant and accessible for both specialists and those new to the field therefore is fundamental to any academic interested in modern advances of the subject Hydro-Meteorological Hazards, Risks, and Disasters Paolo

Paron,2023-08-17 Hydro Meteorological Hazards Risks and Disasters 2e provides an integrated look at the major disasters that have had and continue to have major implications for many of the world's people such as floods and droughts This new edition takes a geoscientific approach to the topic while also covering current thinking about some scientific issues that are socially relevant and can directly affect human lives and assets This new edition showcases both academic and applied research conducted in developed and developing countries allowing readers to see the most updated flood and drought modeling research and their applications in the real world including for humanitarian emergency purposes Hydro Meteorological Hazards Risks and Disasters 2e also contains new insights about how climate change affects hazardous processes For the first time information on the many diverse topics relevant to professionals is aggregated into one volume It is a valuable reference to researchers graduates scientists physical geographers urban planners landscape architects and other people who work on the built environments of the world Cutting edge discussion of natural hazard topics that affect the lives and livelihoods of millions of people worldwide Includes numerous full color tables GIS maps diagrams illustrations and photographs of hazardous process in action Provides case studies of prominent hydro meteorological hazards and disasters Proceedings Of The Coastal Sediments 2011, The (In 3 Volumes) Tiffany M Roberts,Julie D Rosati,Ping Wang,2011-04-21 This proceedings contains nearly 200 papers on cutting edge research presented at the seventh international Symposium on Coastal Engineering and Science of Coastal Sediment Processes held May 2-6 2011 in Miami Florida USA This technical specialty conference was devoted to promoting an interdisciplinary exchange of state of the art knowledge among researchers in the fields of coastal engineering geology oceanography and related disciplines with a theme of bringing together theory and practice Focusing on the physical aspects of sediment processes in various coastal environments this three volume conference proceedings provides findings from the latest research and newest engineering applications Session topics cover a wide range including barrier island morphodynamics and evolution beach nourishment

and shore protection coastal dunes cohesive sediment transport field and laboratory measurements of sediment transport processes and numerical modeling gravel transport large scale and long term coastal changes LiDAR and remote sensing longshore and cross shore sediment transport marsh and wetlands regional sediment management river deltas sea level changes shelf and sand bodies shoreline changes tidal inlets and navigation channels A special session on recent research findings at the Northern Gulf of Mexico is also included

Laterites of the Bengal Basin Sandipan Ghosh, Sanat Kumar Guchhait, 2019-06-24 This Brief analyses and discusses the laterites in the Bengal Basin The book highlights 1 the definition identification and classification of ferruginous materials 2 the mode of laterite formation and its other horizons 3 processes and theories of lateritisation 4 determination of laterite ages 5 recognition of palaeogeomorphic and palaeoclimatic significance and 6 geo chronology and reconstruction of former lateritized landscapes The chapters cover the tectono climatic evolution of north south laterite profiles of the north western Bengal Basin on the Rajmahal Basalt Traps Archean Granite Gneiss Gondwana Sandstones Palaeogene Gravels and Older Palaeo Deltaic Alluvium The book uses advanced field based studies quantitative analysis and thematic mapping to cover various areas of palaeogeography and regolith geology of the Bengal Basin in connection with laterite genesis palaeoweathering tectonic geomorphology Quaternary geomorphology and pedogeomorphology It introduces laterites as a potential stratigraphic marker in Indian geology by explaining their palaeogeomorphic and palaeoclimatic significance This Brief is a comprehensive resource to researchers students and academicians of geography geomorphology and geology working on laterites

The Proceedings of the Coastal Sediments 2011 Ping Wang, 2011 This proceedings contains nearly 200 papers on cutting edge research presented at the seventh international Symposium on Coastal Engineering and Science of Coastal Sediment Processes held May 20-26 2011 in Miami Florida USA This technical specialty conference was devoted to promoting an interdisciplinary exchange of state of the art knowledge among researchers in the fields of coastal engineering geology oceanography and related disciplines with a theme of bringing together theory and practice Focusing on the physical aspects of sediment processes in various coastal environments this three volume conference proceedings provides findings from the latest research and newest engineering applications Session topics cover a wide range including barrier island morphodynamics and evolution beach nourishment and shore protection coastal dunes cohesive sediment transport field and laboratory measurements of sediment transport processes and numerical modeling gravel transport large scale and long term coastal changes LiDAR and remote sensing longshore and cross shore sediment transport marsh and wetlands regional sediment management river deltas sea level changes shelf and sand bodies shoreline changes tidal inlets and navigation channels A special session on recent research findings at the Northern Gulf of Mexico is also included

Encyclopedia of Quaternary Science Cary Mock, 2013-03-25 The second revised edition of the Encyclopedia of Quaternary Science Four Volume Set provides both students and professionals with an up to date reference work on this important and highly varied area of research There are lots of new

articles and many of the articles that appeared in the first edition have been updated to reflect advances in knowledge since 2006 when the original articles were written The second edition will contain about 375 articles written by leading experts around the world This major reference work is richly illustrated with more than 3 000 illustrations most of them in colour Research in the Quaternary sciences has advanced greatly in the last 10 years especially since topics like global climate change geologic hazards and soil erosion were put high on the political agenda This second edition builds upon its award winning predecessor to provide the reader assured quality along with essential updated coverage Contains 357 broad ranging articles 4310 pages written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource for information in the field Facilitates teaching and learning The first edition was regarded by many as the most significant single overview of Quaternary science ever yet Editor in Chief Scott Elias has managed to surpass that in this second edition by securing even more expert reviews whilst retaining his renowned editorial consistency that enables readers to navigate seamlessly from one unfamiliar topic to the next **Rock**

Avalanches O. Adrian Pfiffner, John Joseph Clague, Reginald Leonhard Hermanns, Tim Davies, 2021-04-07 *Coastline and Dune Evolution along the Great Lakes* Timothy G. Fisher, Edward C. Hansen, 2014-07-30 Stemming from research in the three upper Great Lakes basins Superior Michigan and Huron the volume is organized by geologic time beginning with the reconstructed drainage for glacial Lake Minong southward across Michigan's Upper Peninsula and ending with the use of remote sensing and geospatial analysis in monitoring Lake Michigan coastal dunes **Advances In Physics And Applications Of Optically And Thermally Stimulated Luminescence** Reuven Chen, Vasilis Pagonis, 2019-03-06 In this volume international leading experts in the study of thermally and optically stimulated luminescence give an up to date comprehensive coverage of the theoretical and experimental aspects of these subjects as well as their applications The theory of thermoluminescence TL and optically stimulated luminescence OSL are discussed in detail including mainly solid state models of localized and delocalized transitions These models cover the effects occurring during the excitation by irradiation and the read out by heating or by exposure to light The methods described consist of analytical mathematical considerations as well as numerical simulations The main application of these effects namely radiation dosimetry includes personal and environmental dosimetry as well as retrospective dosimetry and the dosimetry of cosmic radiation and space missions Also discussed in detail are archaeological and geological dating the use of luminescence dosimetry in medical physics as well as general applications in geosciences other model subjects such as time resolved luminescence and thermally assisted OSL and the sister subject of thermoluminescence in photosynthetic materials **Luminescence** Jagannathan Thirumalai, 2016-11-10 The aim of this book is to give readers a broad review of topical worldwide advancements in theoretical and experimental facts instrumentation and practical applications erudite by luminescent materials and their prospects in dealing with different types of luminescence like photoluminescence electroluminescence thermo luminescence triboluminescence bioluminescence

design and applications The additional part of this book deals with the dynamics rare earth ions photon down up converting materials luminescence dating lifetime bioluminescence microscopical perspectives and prospects towards the basic research or for more advanced applications This book is divided into four main sections luminescent materials and their associated phenomena photo physical properties and their emerging applications thermoluminescence dating from theory to applications and bioluminescence perspectives and prospects Individual chapters should serve the broad spectrum of common readers of diverse expertise layman students and researchers who may in this book find easily elucidated fundamentals as well as progressive principles of specific subjects associated with these phenomena This book was created by 14 contributions from experts in different fields of luminescence and technology from over 20 research institutes worldwide

Introduction To Optical Dating Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Introduction To Optical Dating**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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