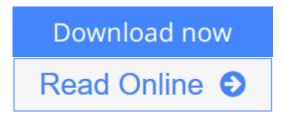


Quaternary Dating Methods

By Mike Walker



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This introductory textbook introduces the basics of dating, the range of techniques available and the strengths and limitations of each of the principal methods.

Coverage includes:

- the concept of time in Quaternary Science and related fields
- the history of dating from lithostratigraphy and biostratigraphy
- the development and application of radiometric methods
- different methods in dating: radiometric dating, incremental dating, relative dating and age equivalence

Presented in a clear and straightforward manner with the minimum of technical detail, this text is a great introduction for both students and practitioners in the Earth, Environmental and Archaeological Sciences.

Praise from the reviews:

"This book is a must for any Quaternary scientist." SOUTH AFRICAN GEOGRAPHICAL JOURNAL, September 2006

"...very well organized, clearly and straightforwardly written and provides a good overview on the wide field of Quaternary dating methods..." JOURNAL OF QUATERNARY SCIENCE, January 2007



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Quaternary Dating Methods By Mike Walker Bibliography

Sales Rank: #1851133 in Books
Published on: 2005-06-17
Original language: English

• Number of items: 1

• Dimensions: 9.76" h x .72" w x 6.75" l, 1.29 pounds

• Binding: Paperback

• 306 pages

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Editorial Review

Review

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From the Back Cover

The Quaternary is the most recent major subdivision of the geological record, covering the last 2.5 million years or so of earth history and extending to the present day. Over the course of the Quaternary, the earth's global climate system oscillated between glacial and interglacial modes. A reliable chronology is key to our understanding not only of the dramatic changes in the physical and biotic landscapes that resulted from these major climatic shifts, but also of the important human evolutionary and dispersal events that occurred during this period. *Quaternary Dating Methods* describes the different techniques that can be employed to establish a Quaternary timescale, and shows the wide range of contexts in which these can be applied.

The book begins with a review of the history of Quaternary dating from the early attempts based on biblical genealogies to recent developments involving radiometric methods. The basics of radioactivity and concepts of Quaternary stratigraphy are also introduced. Subsequent chapters cover the different dating techniques, beginning with those based on the radioactive decay of certain chemical elements, through the use of annually-banded records such as tree-rings and varves, to methods that enable materials either to be ranked in terms of relative order of antiquity or to be correlated using time-parallel marker horizons in different sedimentary sequences.

This book:

- Introduces each dating technique in a clear and straightforward manner, with a minimum of technical detail.
- Discusses the strengths and weaknesses of each method.
- Focuses on the practical aspects of dating, with specific examples that show the versatility of the different approaches.
- Covers a broad field, including Quaternary Science, Earth Science and Archaeology.

This book is essential reading for second and third-year undergraduates in Physical Geography, Environmental Science, Earth Science and Archaeology, and for students taking courses in Quaternary Studies, Geochronology, and Palaeoclimatology. It is equally important for professionals in the fields of Earth, Environmental and Archaeological Sciences, who need to know about the range of dating techniques that are available, and about their strengths, limitations and potential applications.

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Do you considered one of people who can't read gratifying if the sentence chained inside the straightway, hold on guys this specific aren't like that. This Quaternary Dating Methods book is readable by means of you who hate the straight word style. You will find the details here are arrange for enjoyable reading through experience without leaving even decrease the knowledge that want to provide to you. The writer of Quaternary Dating Methods content conveys the thought easily to understand by many individuals. The printed and e-book are not different in the content but it just different available as it. So , do you nevertheless thinking Quaternary Dating Methods is not loveable to be your top listing reading book?

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