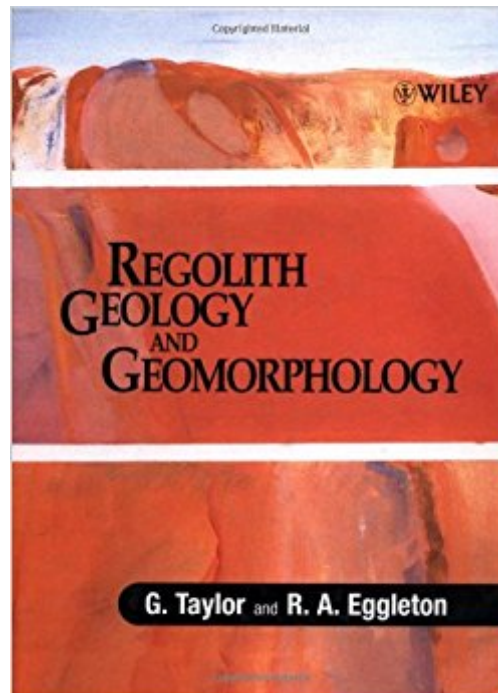




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Regolith Geology And Geomorphology



Synopsis

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

Book Information

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Mathematics > Earth Sciences

Customer Reviews

It is a professional reference that should be of value to many on the front lines of consulting and

research." (Geological Magazine, Vol.138 No.6 2001) "useful introductory text" (Environmental

Geology, January 2002) "this is a more interesting and informative book that first impressions

suggest" (Geoscientist, April 2002)

Regolith Geology and Geomorphology is a comprehensive and innovative approach to a subject

which crosses traditional science discipline boundaries. This book has been written by two authors

who have 70 years cumulative experience in this area. Using the unique character of the Australian

landscape and regolith, a country which has experienced weathering and deep development of regolith for nearly 1 billion years, the authors explore in great depth the processes that have contributed to their evolution. Regolith study is a young science and much that has been written about it is speculative and open to question. A real understanding for the topic can only come from scientific investigation. This book provides a fundamental discussion of regolith properties and chemistry, and considers many landscape situations and features, linking the process to position, geochemistry and time. The central theme throughout is the critical role that water plays in driving regolith change and developing mineralogical variation down the profile. This book would be of use to Earth scientists, civil and mining engineers, environmental scientists, mineral explorationists, geochemists, pedologists, geomorphologists, 2nd year level academics, academic libraries, mining exploration companies and government instrumentalists.

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