

Regolith Science



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New Zealand only*

Keith Scott and Colin Pain

This comprehensive reference on the fundamentals of regolith geoscience describes how regolith is developed from parental rocks and emphasises the importance of chemical, physical, water and biological processes in regolith formation.

Regolith Science provides details for mapping regolith landforms, as well as objective information on applications in mineral exploration and natural resource management. It also relates the textures and mineralogy of regolith materials to their physical and chemical properties.

Written by experts in the field, *Regolith Science* summarises research carried out over a 13-year period within the Cooperative Research Centre for Landscape Environments and Mineral Exploration. This book will be a valuable resource for scientists and graduate/postgraduate students in geology, geography and soil science, professionals in the exploration industry and natural resources management.

FEATURES

- First book on regolith to include a substantial portion on the influence of biota
- First book on regolith to include detailed information on soil degradation processes such as acid sulfate soils
- Concise history of weathering through time in Australia
- Type examples of weathering profiles for common rock types
- Previously unpublished information on elemental abundances in regolith materials
- Practical methods for mineral exploration using regolith materials
- Practical methods to tackle natural resource management issues

AUTHOR INFORMATION

Keith Scott is an Honorary Fellow at CSIRO Exploration and Mining and a Visiting Fellow at RSES, ANU. He has been studying weathering for the past 35 years with the aim of developing better methods of geochemical exploration for base metal and Au deposits by understanding the processes involved during weathering.

Colin Pain is a Senior Regolith Geoscientist at Geoscience Australia and Adjunct Associate at the University of Canberra. He is the co-author of a previous book on regolith, soils and landforms. His research over the last decade has emphasised the relationship between landforms and regolith processes, especially as applied to natural resource management.

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