

# Regolith Science



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Colour illustrations

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## Keith Scott and Colin Pain

This comprehensive reference will enable recent geology, geography and soil science graduates working with regolith materials and postgraduate students to acquire a sound background in aspects of regolith geoscience. It indicates how regolith is developed from parental rocks and emphasises the importance of chemical, physical, water and biological processes in regolith formation. It provides full colour illustrations of textures in regolith materials and details of their chemical and physical properties. *Regolith Science* also provides details for mapping regolith landforms and objective information on applications in mineral exploration and natural resource management.

Each chapter is written by an expert on that topic and consistency between chapters is provided by the editors who have international standing as regolith geoscientists. It summarises research carried out over a 12-year period within the CRC for Landscape Environments and Mineral Exploration.

## 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- Previously unpublished information on elemental abundances in regolith materials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 Research 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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