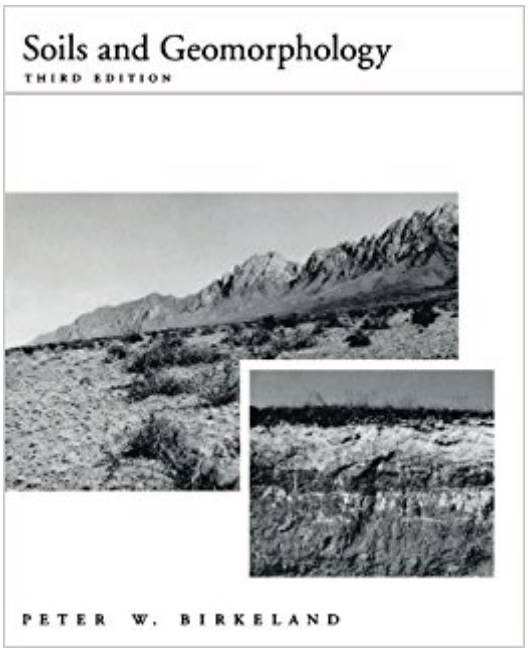
Soils And Geomorphology



Synopsis

Soils and Geomorphology, now in its third edition, remains popular among soil scientists, geomorphologists, geologists, geographers, and archaeologists. While retaining the useful "factors of soil formation format," it has been extensively revised, incorporating a considerable amount of new research and offering a greater number of topics and examples -- particularly in the chapters "Weathering and Soil Development with Time" and "Topography: Soil Relations with Time in Different Climatic Settings." Greater emphasis is placed on the role of dust in pedogenesis, and new data are included on tropical soil development, global soil-loess relations, neotectonics, and reduction processes. The text discusses field applications such as the use of soils in recognizing climate change, estimating the age of geological deposits, and dealing with environmental problems such as acid rain. New "how-to" appendices on soil descriptions and calculating the profile development index are also included. Soils and Geomorphology is an ideal text for advanced undergraduate and graduate students in courses on pedology, soil science, Quaternary geology, archeology, and sedimentary petrology.

Book Information

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Customer Reviews

"Greatly revised, better than ever! Much new material. Chapter on Weather and Soil Development with Time was especially helpful. Perhaps the most valuable book on my bookshelf."--Hugh Mills, Tennessee Tech University"This third edition greatly expands and updates the second (1984) edition. It is written for soil scientists, geomorphologists, geologists, geographers, and archeologists but would be an excellent text for advanced undergraduate and graduate students in pedology, soil

science, Quaternarygeology, and sedimentary geology. This book retains, but also expands and updates, the first five chapters from the previous edition that cover soil morphology, classification, weathering, weathering products and soil-forming processes. Chapter six, factors of soil formation, sets the theme for theremaining four chapters, which addresses the relationship among soils and their formation with parent material, time, topography and climate. Emphasis is on the study of soils in their natural environment; two new appendixes on how to describe soil profiles, and calculate the profile developmentindex are included." --California Geology, May 2000

Peter Birkeland is at University of Colorado, Boulder.

Each chapter goes above and beyond any undergraduate lesson plan, which makes it a great book for undergrad professors to use because it gives curious students an option to quench their thirst for the heavily-quantitative side of the lesson that the professor skips over. The trouble arises when you’re tasked with skimming through the chapters for the basics and you get sidetracked, and maybe discouraged, by the material’s underlying complexity, but on the bright side the wording is by no means ambiguous. Out of all the Soils textbooks that my school has in the GS department, I firmly believe this is the most comprehensive.

Good!

The process is pedogenesis and this book will tell you what you want to know. I’m using this book in a class I am taking and I would recommend it to anyone who is seriously thinking about wanting to understand soils in a more geomorphologic and geologic perspective. Not a light read, but definitely not a traditional textbook either. The extensive references section will also help to lead you in other directions you may wish to take in order to find more on specific studies and research papers.

I’m using this for my grad research in geology. It’s a great text for someone who has some general geologic background, but who wants to know more about soils. It focuses on general soil chemistry and soil forming factors, among other topics. Birkeland is a great writer, he explains things really clearly.

I read this book for one of my graduate courses. Totaly this is a good book for people who know about soil science, but the weakness of this book is using too much terms which are not explained

in this book. So, if you do not have a very good back ground in geology, it will be difficult for you to understand some parts of this book and you need a geology dictionary to read this book.

Soils: Genesis and Geomorphology Soils: Genesis and Geomorphology by Schaetzl, Randall J., Anderson, Sharon published by Cambridge University Press (2005) Soils and Geomorphology Gardening Success with Difficult Soils: Limestone, Alkaline Clay, and Caliche Soils Introducing Geomorphology: A Guide to Landforms and Processes (Introducing Earth and Environmental Sciences) Karst Hydrology and Geomorphology of the Barrack Zourie Cave System, Schoharie County, New York (Bulletin No. 5) Geomorphology and Global Tectonics Introduction to Coastal Processes and Geomorphology, Second Edition Principles of Glacial Geomorphology and Geology Karst Hydrogeology and Geomorphology Landscapes and Geomorphology: A Very Short Introduction (Very Short Introductions) Introduction to Coastal Processes and Geomorphology Tools in Fluvial Geomorphology (Advancing River Restoration and Management) Regolith Geology and Geomorphology Introduction to Coastal Processes and Geomorphology, Second Edition 2nd (second) Edition by Masselink, Gerd, Hughes, Michael, Knight, Jasper published by Routledge (2011) Geomorphology and Hydrology of Karst Terrains By Gerhard Masselink - Introduction to Coastal Processes and Geomorphology: 1st (First) Edition Through Vulcan’s Eye: The Geology and Geomorphology of Lassen Volcanic National Park Best Management Practices for Saline and Sodic Turfgrass Soils: Assessment and Reclamation Periglacial Geomorphology