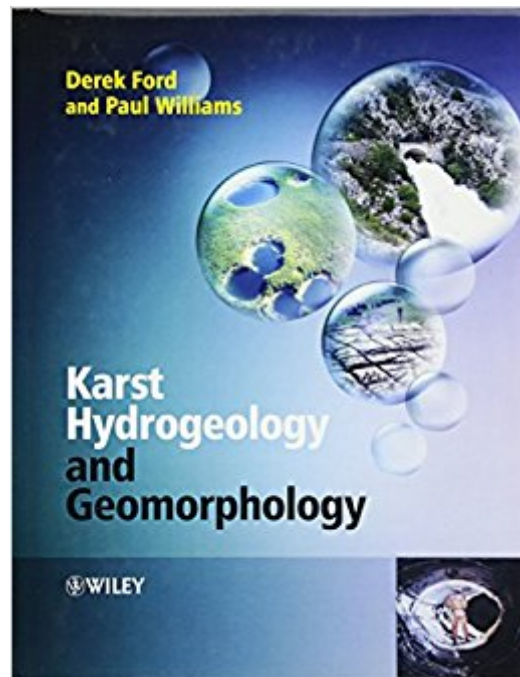




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# Karst Hydrogeology And Geomorphology



## Synopsis

Originally published in 1989, *Karst Geomorphology and Hydrology* became the leading textbook on karst studies. This new textbook has been substantially revised and updated. The first half of the book is a systematic presentation of the dissolution kinetics, chemical equilibria and physical flow laws relating to karst environments. It includes details of the many environmental factors that complicate their chemical evolution, with a critique of measurement of karst erosion rates. The second half of the book looks at the classification system for cave systems and the influence of climate and climatic change on karst development. The book ends with chapters on karst water resource management and a look at the important issues of environmental management, including environmental impact assessment, environmental rehabilitation, tourism impacts and conservation values. Practical application of karst studies are explained throughout the text. "This new edition strengthens the book's position as the essential reference in the field. Karst geoscientists will not dare to stray beyond arm's reach of this volume. It is certain to remain the professional standard for many decades." *Journal of Cave and Karst Studies*, August 2007

## Book Information

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## Customer Reviews

"Derek Ford and Paul Williams have produced another magisterial overview of the exciting world karst which should be found in a prominent position on the bookshelf. It sets the standard as the definitive guide to karst studies, and should be a highly useful source of reference both for those new to karst and for karst experts for many years to come." (*Zeitschrift für Geomorphologie*, December 2008) "The scope of coverage is quite significant and the reference is astounding--it is

amazing to see how much material is contained within a 562-page monograph." (CHOICE, March 2008) "This new edition strengthens the book's position as the essential reference in the field. Karst geoscientists will not dare to stray beyond arm's reach of this volume. It is certain to remain the professional standard for many decades." (Journal of Cave and Karst Studies, August 2007)

Karst Hydrogeology and Geomorphology is a fully revised and updated version of the extensively used and widely cited Karst Geomorphology and Hydrology published in 1989. This systems orientated book is based on the authors' own teaching, research, consulting and international experience and includes wide international citations and illustrations. This edition features a stronger emphasis on karst hydrogeology, applied aspects of karst and practical problems of karst as well as computer modelling. New developments in the field such as ground penetrating radar, cosmogenic exposure age dating and mass spectrometer techniques are evaluated. The book provides a comprehensive sequenced discussion covering the significant features of karst rocks, the chemistry and kinetics of their dissolution, regional dissolution and carbon sequestration rates as well as fundamentals of hydrogeology with emphasis on the distinctive triple porosity of karst aquifers, cavern genesis, modelling of karst aquifers, the nature and palaeo-environmental importance of cave deposits, karst landforms at the surface, palaeokarst, applied karst problems, sustainable management and conservation of karst resources. Karst Hydrogeology and Geomorphology is an invaluable reference for students of karst studies, karst geomorphology and groundwater hydrogeology as well as hydrogeologists, geomorphologists and civil engineers practicing in regions with karst rocks.

Most revisions of textbooks include a few minor updates, some additional graphics and new developments since the last publication date, and a new cover. This book serves as a welcome exception, in that it contains major changes that enhance a text that was already a classic. The field is rapidly expanding, and the authors are intimately knowledgeable with it all. I've chosen it as our text, and I strongly recommend it for anyone who wants to gain an in-depth understanding of the state of the science.

Best book about these topics out there! Well written, with enough background and details on each topic to entice both the novice and the expert. Highly recommend!

The First edition of this textbook was already very good, and the second reflects the increase of

knowledge since then making it the current text of choice about karst. There can be few readers even those active in the field who will not find something in the way of a new insight or data collection useful to them. There is a natural reluctance to buy a second edition of a textbook already possessed. In this case it has been so extensively rewritten that such fears are as full of holes as the karst topography in the text!

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