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# Karst Hydrogeology and Geomorphology

By Derek Ford, Paul D. Williams



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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



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## Karst Hydrogeology and Geomorphology By Derek Ford, Paul D. Williams Bibliography

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## **Editorial Review**

### **Review**

"...nobody who studies karst in any or all of its aspects can afford to overlook or disregard this book."  
(*International Journal of Speleology* Volume 36, 2007)

### **From the Back Cover**

**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.

## **Users Review**

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