

Speleogenesis

Evolution of Karst Aquifers

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Editors

With Members of the Commission on Karst Hydrogeology and Speleogenesis
International Union of Speleology



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The Authors

Forty-four authors from 15 countries, members of the Commission on Karst Hydrogeology and Speleogenesis, International Union of Speleology.

Overview

This book is a pioneer attempt by an international group of cave scientists to:

- Summarize modern knowledge about the origin of caves in various settings.
 - Examine the variety of approaches that have been adopted.
 - Outline the role of speleogenesis in the evolution of karst aquifers.
- Along with some well-established theories and approaches, the book contains new concepts and ideas emerging in recent years.

We hope that this approach will stimulate further development and exchange of ideas in cave studies and karst hydrogeology.

Subjects Covered Include

- Evolutionary typology of karst.
- Geologic and hydrogeologic controls.
- Dissolution physics and chemistry.
- Finite element and laboratory modeling.
- Overviews on speleogenesis in coastal/oceanic, confined, and unconfined settings.
- Deep-seated (hypogene) karstification
- Over 30 representative case studies.
- East European–Russian research.
- Solutional, erosional, and breakdown morphology of caves.
- Formation of hydrocarbon and mineral deposits.
- Role of speleogenesis in the formation of karst aquifers.
- Water problems and land use in karstic terraines.

The Book

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