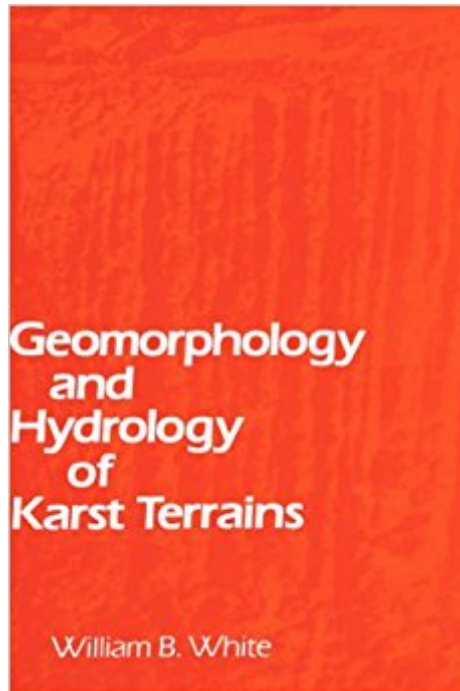




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Geomorphology And Hydrology Of Karst Terrains



Synopsis

Karst terrains - irregular limestone regions characterized by sinkholes, underground streams and caverns - have long been of interest because of the dramatic landscapes and the challenge of cave exploration. But the geomorphology and hydrology of karst drainage systems are now of interest to water supply specialists, urban planners, and environmental engineers. This graduate-level text discusses the chemistry of karst waters, the processes of sedimentary in-filling, the origins of caves, and the evolution of karst systems through geologic time. Since karst develops predominantly by chemical processes, this text is written from the point of view of the chemistry of limestone solution. The approach is more quantitative and process-oriented than that of existing textbooks, and the author includes material on environmental problems in karst regions, including land use and land management, water supply, and pollution control.

Book Information

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"Several sections are included that are generally neglected in geomorphology texts and their inclusion by White will be valuable and of interest to teachers and students Discussion of evaporite karst as well as karst and karst-like features in slightly soluble rocks and ice add to the all-inclusive nature of the text." --Journal of Geological Education "The most comprehensive text in the field in any language ...covers many technical and environmental aspects not found in any other textbook. The author has contributed innovative research in most of the major topics; he is the most appropriate person in the U.S. to write such a book."--Arthur N. Palmer, State University of New

York at Oneonta"An excellent summary of both the forms and processes involved in the development of caves and related features." --Choice

"To write a book on karst hydrology and geomorphology is a major undertaking. William B. White has done an excellent job in selecting material from more than 800 technical books and articles and combining this material with the results of his own extensive experience into an exceptionally useful book." --Stanley N. Davis, University of Arizona

"Author William B. White has summarized and outstandingly brilliant career in Karst Hydrology with what will easily be accepted as the finest textbook ever written on the subject. He writes in the style of old world scientists who knew better the skill of articulating both exact and poetic prose." --Journal of Ground Water

"We are indebted to the author for this authoritative integration of a large, complex, and scattered polyglot literature. The book is an admirable cross-disciplinary synthesis applied to one of the more romantic landscapes of our planet." --Science

"A major new contribution to the literature on karst. . . . This text supersedes all previous books on this topic. . . . Will White, over the years and in many ways, has taught most of the people who are interested in karst. Now he has written an excellent book through which he will teach many more." --Water Resources Bulletin

"At last here is a technical book that does justice to caves as a source of inspiration and hard field data. Will White's scientific roots as a caver are revealed immediately in the dedication, preface, and introduction, and evidence of his background pervades the entire book. For 30 years he has probed the major questions about caves and karst, leaving few stones unturned. Will's writing is entertaining, clear, and often delightfully irreverent. . . . Will White does great credit to his own work, to the many sources he acknowledges, and to American karst science in general. This book is a must for anyone who wants to understand the Why and How of karst processes." --CRF Newsletter

"The book's greatest value to those already concerned with karst geomorphology lies in the strongly individual voice in which it is written, a voice which represents a distinctively American school of thought which has largely grown up around White and other leading members of the Cave Research Foundation in the eastern U.S.A. It is the first substantial American textbook on karst for thirty years, and very much reflects U.S. developments." --Earth Surface Processes and Landforms

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William B. White is at Pennsylvania State University.

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