



Hydrogeology: Principles and Practice

By Kevin M. Hiscock

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Hydrogeology: Principles and Practice provides a comprehensive introduction to the study of hydrogeology and the significance of groundwater in the terrestrial aquatic environment.

Earlier chapters explain the fundamental physical and chemical principles of hydrogeology, and later chapters feature groundwater investigation techniques and contaminant hydrogeology. A unique feature of the book is a chapter on the application of environmental isotopes and noble gases in the interpretation of aquifer evolution. The last chapter discusses groundwater resources and environmental management, and examines the role of groundwater in integrated river basin management, including the possible impacts of climate change.

Throughout the text, boxes are used to explain special topics and to illustrate international case studies. The appendices provide useful reference material and include review questions and exercises to develop the reader's knowledge and problem-solving skills in hydrogeology.

This accessible textbook is essential reading for undergraduate and graduate students in earth and environmental sciences taking a course in hydrogeology or groundwater science.

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Editorial Review

Review

"...this highly engaging and understandable book...gives support to all those having to deal with practical problems facing the hydrogeologist...essential reading for those studying earth and environmental sciences. It is also recommended to hydrogeologists in private enterprises and within public administration."

Environmental Geology, June 2006

"...Kevin Hiscock has captured the major issues and themes relevant to today's hydrogeologist by presenting them in a logical approach. The text is illustrated throughout with beautifully presented, clear and precise drawings. The examples really do add to the content and distinguish this volume from similar textbooks on the market. The book will prove a worthy addition to anyone's library shelf, not only to aid undergraduate or postgraduate study, but also as a reference to practising professionals like myself who've gone a bit rusty on some of the those key concepts!" *Geoscientist, June 2006*

"Dr Hiscock has clearly spent significant effort drawing together many case studies . . . that provide excellent practical illustration of the principles taught. It is the diversity and high quality of these case studies drawn from all over the world that set this book apart from other texts. The book covers most aspects likely to be addressed in many undergraduate courses and will provide a foundational general text for postgraduate courses to be used alongside more specific hydrogeological texts. Practising hydrogeologists will find it a welcome refresher and useful resource."

Geological Magazine

"The newest addition to the available textbooks in hydrogeology . . . is a slim, softcover volume but has more depth than many introductory texts. The smaller typeface and compact, yet clear figures allow this concise presentation . . . I would recommend this text for introductory or even advanced courses."

Ground Water

From the Back Cover

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About the Author

Kevin Hiscock is a Senior Lecturer in the School of Environmental Sciences at the University of East Anglia. He has over 20 years' experience in teaching and research in hydrogeology, with interdisciplinary interests in hydrochemistry, environmental isotopes and groundwater resources management.

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