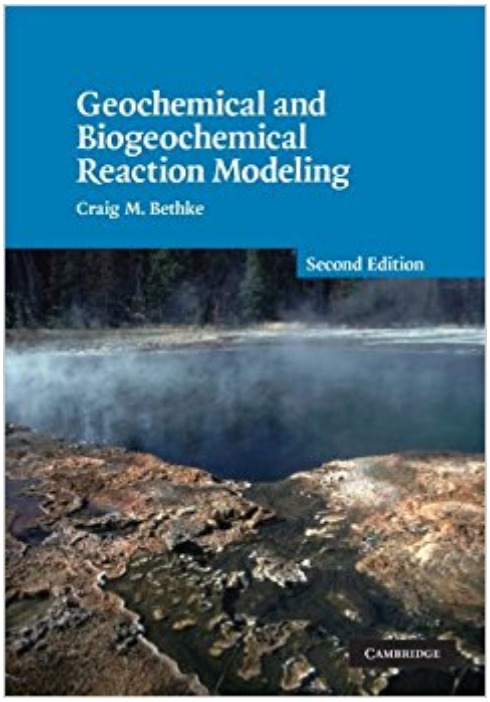
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Geochemical And Biogeochemical Reaction Modeling



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Synopsis

This book provides a comprehensive overview of reaction processes in the Earth's crust and on its surface, both in the laboratory and in the field. A clear exposition of the underlying equations and calculation techniques is balanced by a large number of fully worked examples. The book uses The Geochemist's WorkbenchÃ Â® modeling software, developed by the author and already installed at over 1000 universities and research facilities worldwide. Since publication of the first edition, the field of reaction modeling has continued to grow and find increasingly broad application. In particular, the description of microbial activity, surface chemistry, and redox chemistry within reaction models has become broader and more rigorous. These areas are covered in detail in this new edition, which was originally published in 2007. This text is written for graduate students and academic researchers in the fields of geochemistry, environmental engineering, contaminant hydrology, geomicrobiology, and numerical modeling.

Book Information

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Customer Reviews

"This book has to be an essential companion to The 'Geochemist's Workbench', as it explains so much concerning what the software does, why it does it, and how the operator can develop the skills of modelling by interacting with it. ... the book is structure and written in ways that genuinely encourage the to progress. Typically, chapters are introduced with fairly simple concepts, often illustrated with itnteresting, quirky, and familiar examples drawn from everyday life that illustrate theoretical principles. Individual chapters are short, easily digestible, and readily adopted as teaching packages. ... this book is an extremely valuable resource. ... It is very easily accessible to a

mathematically literate reader, and demonstrates the breadth of application of modelling to a range of geological and engineering problems. Those lacking a strong maths background will find this book challenging but rewarding given its diversity of application and clarity of explanation." - David Manning, Mineralogical Magazine

This book provides a comprehensive overview of reaction processes in the Earth’s crust and on its surface. Many applications of reaction modeling are covered in detail in this new edition, originally published in 2007. This text is written for graduate students and researchers across a broad spectrum of the geosciences.

Good.

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