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A thorough knowledge of geology is essential in the design and construction of infrastructures for transport, buildings and mining operations; while an understanding of geology is also crucial for those working in urban, territorial and environmental planning and in the prevention and mitigation of geohazards.Geological Engineering provides an inte

Explains the factors which determine and control the engineering properties of soils—particularly volume change, deformation, strength and permeability. New to this edition: expanded coverage of residual and tropical soils, environmental aspects of soil behavior, material on partly saturated soils, revised treatment of direct or coupled hydraulic, chemical, thermal and electrical flows through soil.

"Interpreting a geological setting for the purposes of engineering design and construction requires knowledge of geological engineering and engineering geology, leading to integrated engineering solutions which take into account both ground conditions and environment. This textbook, extensively illustrated, covers the subject area of geological engineering in four sections: 1. Fundamentals; soil mechanics, rock mechanics and hydrogeology; 2. Methods; site investigations, rock mass characterization and engineering geology mapping; 3. Applications: foundations, slope stability, tunnelling, dams, reservoirs and earth works, and 4. Geohazards: landslides, earthquake hazards and prevention and mitigation of geological hazards. The book can serve as a basic reference work for practising engineering geologists, geological and geotechnical engineers, geologists, civil and mining engineers and those professionals involved in design and construction of foundations, tunneling, earth works and excavations for infrastructures, buildings, mining operations, etc. As a textbook it develops an extensive teaching programme of geological engineering and is designed for undergraduate and postgraduate students and academics. Covering basic concepts up to the newest methodologies and procedures used in geological engineering. The book is illustrated with many educational working examples and graphical materials"—Provided by publisher.

Volcanic Rock Mechanics includes papers and special lectures of the 3rd International Workshop on Volcanic Rocks, Rock Mechanics and Geo-Engineering in Volcanic Environments, which was held within the framework of the Congress Cities on Volcanoes6-Tenerife 2010 (Puerto de la Cruz, Tenerife, Spain, 31 May 4 June 2010). The book is a comprehensiv

On 17th January 1995 an inland earthquake of 7.2 magnitude occurred under Kobe city in central Japan. More than 5,500 people lost their lives. There was immense and serious damage to buildings. Researchers and engineers were shocked and astonished by the extent of the devastation and loss of life. Ground motions, generated by the event were far greater than the seismic standard for earthquake-proof designs in Japan. Recent academic progress in the fields of geology and geophysics, which would help to reduce the severity of seismic disasters, has not been sufficiently applied to the development of earthquake-proof designs. This book contains 13 original and innovative papers of interdisciplinary study spanning earthquake-proof technology and active fault science (seven of the papers cover topics concerning the 1995 Kobe earthquake).

A compilation of papers describing the geology, engineering properties and the hazards and design issues associated with the substrata of Melbourne and its surrounds. It includes the area from Geelong to Baechus Marsch to the Dandenongs and Mornington Peninsula.

"You can't really know the place where you live until you know the shapes and origins of the land around you. To feel truly at home in the Bay Area, read Doris Sloan's intriguing stories of this region's spectacular, quirky landscapes."Hal Gilliam, author of Weather of the San Francisco Bay Region "This is a fascinating look at some of the world's most complex and engaging geology. I highly recommend this book to anyone interested in an understanding of the beautiful landscape and dynamic geology of the Bay Area."Mel Erskine, geological consultant "This accessible summary of San Francisco Bay Area geology is particularly timely. We are living in an age where we must deal with our impact on our environment and the impact of the environment on us. Earthquake hazards, and to a lesser extent landslide hazards, are well known, but the public also needs to be aware of other important engineering and environmental impacts and geologic resources. This book will allow Bay Area residents to make more intelligent decisions about the geological issues affecting their lives."John Wakabayashi, geological consultant

The numerical, discrete element, Discontinuous Deformation Analysis (DDA) method was developed by Dr. Gen-hua Shi while he was working at the University of California, Berkeley, under the supervision of Prof. Richard E. Goodman in the late 1980s. Two-dimensional DDA was published in 1993 and three-dimensional DDA in 2001. Since its publication DDA has been verified, validated and applied in numerous studies worldwide and is now considered a powerful and robust method to address both static and dynamic engineering problems in discontinuous rock masses. In this book Yossef H. Hatzor and Guowei Ma, co-chairs of the International Society for Rock Mechanics (ISRM) Commission on DDA, join Dr. Shi in authoring a monograph that presents the state of the art in DDA research. A comprehensive discussion of DDA development since its publication is provided in Chapter 1, followed by concise reviews of 2D and 3D DDA in chapters 2 and 3. Procedures to select geological and numerical input parameters for DDA are discussed in Chapter 4, and DDA validation and verification is presented in Chapter 5. Applications of DDA in underground and rock slope engineering projects are discussed in chapters 6 and 7. In Chapter 8 the novel contact theory recently developed by Dr. Shi is published in its complete form, for the first time. This book is published within the framework of the ISRM Book Series and is the contribution of the ISRM DDA Commission to the international rock mechanics community.

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