

Chapter 10 Engineering Geology Field Manual

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'Engineering geology' is one of those terms that invite definition. The American Geological Institute, for example, has expanded the term to mean 'the application of the geological sciences to engineering practice for the purpose of assuring that the geological factors affecting the location, design, construction, operation and maintenance of engineering works are recognized and adequately provided for'. It has also been defined by W. R. Judd in the McGraw-Hill Encyclopaedia of Science and Technology as 'the application of education and experience in geology and other geosciences to solve geological problems posed by civil engineering structures'. Judd goes on to specify those branches of the geological or geo-sciences as surface (or surficial) geology, structural/fabric geology, geohydrology, geophysics, soil and rock mechanics. Soil mechanics is firmly included as a geological science in spite of the perhaps rather unfortunate trends over the years (now happily being reversed) towards purely mechanistic analyses which may well provide acceptable solutions for only the simplest geology. Many subjects evolve through their subject areas from an interdisciplinary background and it is just such instances that pose the greatest difficulties of definition. Since the form of educational development experienced by the practitioners of the subject ultimately bears quite strongly upon the corporate concept of the term 'engineering geology', it is useful briefly to consider that educational background.

Richly illustrated and supplemented by numerous graphs and tables, the book is based on eleven revised and edited state-of-the-art reports originally delivered at an International Symposium on Soft Clay held in Bangkok.

Engineer Geologic Mapping is a guide to the principles, concepts, methods, and practices involved in geological mapping, as well as the applications of geology in engineering. The book covers related topics such as the definition of engineering geology; principles involved in geological mapping; methods on how to make engineering geological maps; and rock and soil description and classifications. Also covered in the book are topics such as the different kinds of engineering geological mapping; the zoning concept in engineering geological mapping; terrain evaluation; construction sites; and land and water management. The text is recommended for engineers and geologists who would like to be familiarized with the concepts and practices involved in geological mapping.

This book provides a comprehensive overview of this multi-disciplinary subject, which has interaction with other disciplines, such as mineralogy, petrology, structural geology, hydrogeology, seismic engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS), environmental geology, etc.

An introduction for courses that involve some knowledge of glacial geology and sediments of formerly glaciated terrains. The early chapters

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describe depositional processes at modern glacier and ice-sheet margins relating sediments and landforms in recurring "landsystems". Later chapters portray the distribution of these landsystems in Pleistocene glaciated terrains of the mid-latitudes, focussing on commonly encountered problems in various fields from stratigraphic and sedimentological investigations to construction problems relating to roads and dams. The resulting text is a summation of a large body of literature previously accessible only to specialists. A substantial reference list is complemented by cross-references throughout.

The successful investigation of the hydrogeology of an area depends on the collection of reliable field data. Field Hydrogeology, Third Edition follows a systematic approach to completing a hydrogeological study and explains how to decide on the measurements that are needed and on the instruments and techniques required. Measurements that are needed and on the instruments and techniques required. Measurements of groundwater levels, rainfall and evaporation spring and stream flows and the use of ground water tracer techniques are covered. There is a great deal of practical information on all aspects of planning and completion of field investigation and on the interpretation of field investigation and on the interpretation of field evidence. Advice on safety is also included. This third edition has been fully revised and updated to bring the book into line with developments in environmental regulations. The order of the chapters reflects the structure of a hydrogeological project and the development of a conceptual model up to completion of a report. The focus is on current practical applications of hydrogeological investigations using new case histories and a new chapter on specialist techniques has been included. Handy pocket-size for field research Features case histories Focuses on practical applications Contains a new chapter on groundwater investigations Field Hydrogeology, Third Edition is an invaluable resource for undergraduate and postgraduate students of geology, hydrogeology, environmental sciences and engineering, as well as a wide range of professionals working in the water resources and environmental protection fields.

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