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Engineering Geomorphology: Theory and Practice

By P. G. Fookes, E. Mark Lee, J.S. Griffiths

Whittles Publishing. Paperback. Condition: new. BRAND NEW, Engineering Geomorphology: Theory and Practice, P. G. Fookes, E. Mark Lee, J.S. Griffiths, This significant new book by foremost experts in the field will be the first that truly covers the topic of engineering geomorphology as a distinct discipline and, as such, will be of paramount importance to both practitioners and students.

Engineering geomorphology is concerned with the evaluation of landform changes, especially the effects of construction on the environment, notably on the operation of surface processes and the risks from surface processes, whether current processes or the legacies of past processes.

Engineering geomorphology provides practical support for engineering decision-making (project planning, investigation, design and construction) and engineering geomorphologists form an integrate part of the engineering or environmental team. Engineering geomorphology has developed in the last few decades to support a number of distinct areas of engineering, including river engineering, coastal engineering, and geotechnical engineering, where engineering geomorphology has complemented engineering geology and has proven to be valuable, especially for rapid site reconnaissance and slope stability studies. Geomorphology provides a spatial context for developing site models and explaining the distribution and characteristics of particular ground-related problems (e.g. landslides, permafrost or the presence of...

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Geomorphology is the study of the process that shape the earth's surface to create landforms. The earth's surface is not static and landform changes through time can cause significant harm to life, and damage to property and the utilisation of natural resources. Over the last few decades engineering geomorphology has developed to support a number of distinct areas within civil engineering. An assessment of the effects of civil engineering projects on the environment. *Engineering Geomorphology: Theory and Practice* provides a compact and comprehensive introduction to the subject. The emphasis is on the nature, scale and consequences of landform changes over timescales relevant to civil engineers (engineering time). This is the first book to bring together practical examples from around the world to show how geomorphological evidence can help in effective land utilisation and hazard risk assessment. Case studies provide important lessons in risk management, and experts provide summaries of current research. The text also promotes good practice and effective land use, and looks at problems caused by misuse of the environment and potential solutions based on geomorphological evidence. About the Author. R. J. Allison is the editor of *Applied Geomorphology: Theory and Practice*, published by Wiley.