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This book is mainly intended to meet the needs of undergraduate students of Civil Engineering. In preparing the first edition of this book, I had two principal aims: firstly to provide the student with a description of soil behavior-and of the effects of the clay minerals and the soil water on such behavior-which was rather more detailed than is usual in an elementary text, and secondly to encourage him to look critically at the traditional methods of analysis and design. The latter point is important, since all such methods require certain simplifying assumptions without which no solution is generally possible. Serious errors in design are seldom the result of failure to understand the methods as such. They more usually arise from a failure to study and understand the geology of the site, or from attempts to apply analytical methods to problems for which the implicit assumptions make them unsuitable. In the design of foundations and earth structures, more than in most branches of engineering, the engineer must be continually exercising his judgment in making decisions. The analytical methods cannot relieve him of this responsibility but properly used, they should ensure that his judgment is based on sound knowledge and not on blind intuition. I hope that the book will prove to be of use to students when their courses are over, and help to bridge the awkward gap between theory and practice.

The book serves the interests and needs of designers, teachers and students of civil engineering. It provides the designers with specific design procedures and the relevant background material to understand the theory and methodology behind the procedures, their limitations and their relevance to the problem on hand. For teachers, this is a good resource book to teach more than one course in geotechnical engineering, both at the undergraduate and postgraduate levels. The students will find the book a good reference for several courses in geotechnical engineering and in their future professional career. The remaining part of the book, on soil engineering, covers all important problems typically met with in civil engineering practice. Applications of procedures are illustrated with numerous solved examples. Instances where the designer must use his own judgement are also brought out.

Introduction to Soil Mechanics, Béla Bodó & Colin Jones Introduction to Soil Mechanics covers the basic principles of soil mechanics, illustrating why the properties of soil are important, the techniques used to understand and characterise soil behaviour and how that knowledge is then applied in construction. The authors have endeavoured to define and discuss the principles and concepts concisely, providing clear, detailed explanations, and a well-illustrated text with diagrams, charts, graphs and tables. With many practical, worked examples and end-of-chapter and coverage of Eurocode 7, Introduction to Soil Mechanics will be an ideal starting point for the study of soil mechanics and geotechnical engineering. About the Authors Béla Bodó B.Sc., B.A., C.Eng., M.I.C.E, was born in Hungary and studied at Budapest Technical University, the University of London and the Open University. He developed his expertise in Soil Mechanics during his employment with British Rail and British Coal. Colin Jones B.Sc, C. Eng., M.I.C.E, P.G.C.E, studied at the University of Dundee, and worked at British Coal where he and Béla were colleagues. He has recently retired from the University of Wales, Newport where he was Programme Director for the Civil Engineering provision, specializing in Soil Mechanics and Geotechnics. Also Available Fundamentals of Rock Mechanics 4th Edition J C Jaeger, N G W Cook and R Zimmerman Hardcover: 9780632057597 Smith's Elements of Soil Mechanics 8th Edition Ian Smith Paperback: 9781405133708

This work was commissioned by the Highways Agency to produce guidance for bridge designers by addressing the thermally induced soil/structure integration problem created by environmental changes of temperature and the associated cyclical displacements imposed on the granular backfill to the bridge abutments. It develops a better theoretical understanding of the cyclic performance, in particular the strain racheting in the backfill soil when in contact with a stiff structure. It also identifies the governing soil parameters and examines their influence in the interaction problem, develops numerical modelling procedures to predict interactive soil behaviour, and identifies and quantifies the controlling features of bridge structures relevant to the interaction problem.

This well-established book, now in its Fourth Edition, includes the positive feedback and constructive suggestions received from academics and students alike on the third edition. While retaining the major contents of the earlier editions, this edition incorporates a new chapter on the significance and impacts of Climate Change on the practice of Geotechnical Engineering. Some of these impacts are direct, e.g., desertification, flooding. Others are indirect, e.g., population migration, agriculture. Geotechnical engineers have to be prepared with plans to mitigate the impacts of these aspects. Case histories have been included to illustrate how advance preparedness may greatly help in providing relief and rehabilitation to the people in affected regions. The text skillfully integrates theory and practice and is suitable as a textbook for undergraduate students of civil engineering. Logical organization and presentation of topics makes the book interesting and easily accessible. This textbook fully covers the requirements of geotechnical courses at undergraduate level prescribed in various universities. The book can also be used, by a judicious choice of topics, by the polytechnic students. KEY FEATURES • Contains plenty of worked-out numerical examples • Provides a large number of objective type questions and exercises • Analyzes field problems and case histories TARGET AUDIENCE • BE/B.Tech (Civil Engineering) • Diploma courses in Civil Engineering

Divided into four parts, this work presents integrated studies and regional and case studies, and covers environmental constraints and effects, and the behaviour of earth masses.

Written for university students taking first-degree courses in civil engineering, environmental and agricultural engineering, Problem Solving in Soil Mechanics stimulates problem-solving learning as well as facilitating self-teaching. Generally assuming prior knowledge of subject, necessary basic information is included to make it accessible to readers new to the topic. Filled with worked examples, new and advanced topics and with a flexible structure that means it can be adapted for use in second, third and fourth year undergraduate courses in soil mechanics, this book is also a valuable resource for the practising professional engineer as well as undergraduate and postgraduate students. Primarily designed as a supplement to Soil Mechanics: Basic Concepts and Engineering Applications, this book can be used by students as an independent problem-solving text, since there are no specific references to any equations or figures in the main book.

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