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OBJECTIVE At the end of this course student acquires the capacity to assess the soil Condition at a given location in order to suggest suitable foundation and also gains The knowledge to design various foundations.

UNIT I SITE INVESTIGATION
AND SELECTION OF FOUNDATION

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Chapter 8 Foundation Design

8.1 Overview This chapter covers the geotechnical design of bridge foundations, cut-and-cover ... Note that a similar design process should be used if a consultant or design-builder is ... • Identify engineering analyses to be performed (e.g. bearing capacity, settlement, ...

Chapter 8 Foundation Design

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More than ten years have
passed since the first

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edition was published. During that period there have been a substantial number of changes in geotechnical engineering, especially in the applications of foundation engineering. As the world population increases, more land is needed and many soil

Foundation Engineering Handbook | Hsai-Yang Fang | Springer

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p="" This book contains
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Iraq discussing the
challenges, opportunities,
and problems of application
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in projects. The contents
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not limited to sustainability & geotechnical engineering, modeling of foundations & slope stability, seismic analysis & soil mechanics, construction materials, and construction & management of projects. This volume will prove a valuable resource for practicing engineers and researchers in the field of geotechnical engineering, structural engineering, and construction and management of projects. ^

One of the core roles of a practising geotechnical engineer is to analyse and

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design foundations. This textbook for advanced undergraduates and graduate students covers the analysis, design and construction of shallow and deep foundations and retaining structures as well as the stability analysis and mitigation of slopes. It progressively introduces critical state soil mechanics and plasticity theories such as plastic limit analysis and cavity expansion theories before leading into the theories of foundation, lateral earth pressure and slope stability analysis. On the engineering side, the book introduces construction and testing

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methods used in current practice. Throughout it emphasizes the connection between theory and practice. It prepares readers for the more sophisticated non-linear elastic-plastic analysis in foundation engineering which is commonly used in engineering practice, and serves too as a reference book for practising engineers. A companion website provides a series of Excel spreadsheet programs to cover all examples included in the book, and PowerPoint lecture slides and a solutions manual for lecturers. Using Excel, the relationships between the input parameters

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and the design and analysis results can be seen.

Numerical values of complex equations can be calculated quickly. non-linearity and optimization can be brought in more easily to employ functioned numerical methods. And sophisticated methods can be seen in practice, such as p-y curve for laterally loaded piles and flexible retaining structures, and methods of slices for slope stability analysis.

The Geotechnical Engineering Handbook brings together essential information related to the evaluation of engineering properties of

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soils, design of foundations such as spread footings, mat foundations, piles, and drilled shafts, and fundamental principles of analyzing the stability of slopes and embankments, retaining walls, and other earth-retaining structures. The Handbook also covers soil dynamics and foundation vibration to analyze the behavior of foundations subjected to cyclic vertical, sliding and rocking excitations and topics addressed in some detail include:
environmental geotechnology and foundations for railroad beds.

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Master the core concepts and applications of foundation analysis and design with Das/Sivakugan's best-selling PRINCIPLES OF FOUNDATION ENGINEERING, 9th Edition. Written specifically for those studying undergraduate civil engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights

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help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book comprises select proceedings of the Indian Geotechnical Conference 2020 (IGC2020) focusing on emerging opportunities and challenges in the field of transportation geotechnics, scour and erosion, offshore geotechnics, and environmental geotechnology.

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The contents will be useful to researchers, educators, practitioners and policy makers alike.

This volume comprises select papers presented during the Indian Geotechnical Conference 2018. This volume discusses construction challenges and issues in geotechnical engineering. The contents cover foundation design and analysis, issues related to geotechnical structures, including dams, retaining walls, embankments and pavements, and rock mechanics and construction in rocks and rocky environments. Many of the

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papers discuss live case studies related to important geotechnical engineering projects worldwide, providing useful insights into the realistic designs and constructions. This volume will be of interest to students, researchers and practitioners alike.

This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2018). The topics covered include the utilization of industrial by-products as construction materials, sustainable and green materials in construction

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applications, and latest measures adopted for stabilization techniques. The book also discusses recent advances and techniques related to geotechnical and concrete domain that can be used as a reference guide for various researchers and practitioners around the globe.

This volume comprises the select proceedings of the Indian Geotechnical Conference (IGC) 2020. The contents focus on recent developments in geotechnical engineering for sustainable tomorrow. The volume covers the topics related advances

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in ground improvement of weak foundation soils for various civil engineering projects and design/construction of reinforced soil structures with different fill materials using synthetic and natural reinforcements in different forms.

This book presents the selected peer-reviewed papers from the national conference Futuristic Approaches in Civil Engineering (FACE) 2019. This volume focuses on latest research and challenges in the field of geotechnical, transportation,

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environmental and water resources engineering. The first part focuses on alternative and sustainable pavement materials, maintenance and rehabilitation of roads, transportation planning, traffic engineering, hybrid vehicles, safety management, and intelligent transport systems. In the second part of the book, basic and advanced research in geotechnical engineering which can provide sustainable solutions to practical problems in foundations, retaining structures, soil dynamics, site characterization, slope stability, dams, rock

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engineering, environmental geotechnics, and geosynthetics are covered. The third part of the book includes current research in environment, and water resources engineering. The contents of this book will be useful for students, researchers as well as industry professionals.

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