

Structural Design Of Raft Foundation

The safe and economical construction of tunnels, mines, and other subterranean works depends on the correct choice of support systems to ensure that the excavations are stable. These support systems should be matched to the characteristics of the rock mass and the excavation techniques adopted. Establishing the support requirements, designing support systems and installing these correctly are essential elements in safe underground construction. This is a comprehensive and practical work which also gives access to user-friendly

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computer programmes which enable the investigation and design of support techniques. Details on how to obtain this software are also included in the book.

The book deals with the geotechnical analysis and design of foundation systems for high-rise buildings and other complex structures with a distinctive soil-structure interaction. The basics of the analysis of stability and serviceability, necessary soil investigations, important technical regulations and quality and safety assurance are explained and possibilities for optimised foundation systems are given. Additionally, special aspects of foundation systems such as geothermal activated foundation systems and the reuse of existing foundations are described and illustrated by examples from engineering

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practice.

This third edition of a popular textbook is a concise single-volume introduction to the design of structural elements in concrete, steel, timber, masonry, and composites. It provides design principles and guidance in line with both British Standards and Eurocodes, current as of late 2007. Topics discussed include the philosophy of design, basic structural concepts, and material properties. After an introduction and overview of structural design, the book is conveniently divided into sections based on British Standards and Eurocodes.

This textbook first published in 1992 now appearing in its third edition retains the best features from the earlier editions and adds significantly to the contents, which include

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developments in the 1990s.

Geotechnical Engineering Handbook

Seismic Design of Buildings to Eurocode 8, Second Edition

Structural Design of Buildings

Concrete, Steelwork, Masonry and Timber Designs to British Standards and Eurocodes, Third Edition

Mechanics and Design

本書收錄了樁筏基礎設計與分析研討會共19篇文章，其中11篇與樁筏基礎設計分析有關，7篇為測試、建造及監測，另有一篇為日本的土力工程特別報告。此書提供了土力工程學領域之最新的筏式基礎研究及有用的相關資訊。

Basic And Applied Soil Mechanics Is Intended For Use As An Up-To-Date Text For The Two-Course

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Sequence Of Soil Mechanics And Foundation Engineering Offered To Undergraduate Civil Engineering Students. It Provides A Modern Coverage Of The Engineering Properties Of Soils And Makes Extensive Reference To The Indian Standard Codes Of Practice While Discussing Practices In Foundation Engineering. Some Topics Of Special Interest, Like The Schmertmann Procedure For Extrapolation Of Field Compressibility, Determination Of Secondary Compression, Lambes Stress - Path Concept, Pressure Meter Testing And Foundation Practices On Expansive Soils Including Certain Widespread

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Myths, Find A Place In The Text. The Book Includes Over 160 Fully Solved Examples, Which Are Designed To Illustrate The Application Of The Principles Of Soil Mechanics In Practical Situations. Extensive Use Of Si Units, Side By Side With Other Mixed Units, Makes It Easy For The Students As Well As Professionals Who Are Less Conversant With The Si Units, Gain Familiarity With This System Of International Usage. Inclusion Of About 160 Short-Answer Questions And Over 400 Objective Questions In The Question Bank Makes The Book Useful For Engineering Students As Well As For Those Preparing For Gate, Upsc

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And Other Qualifying Examinations. In Addition To Serving The Needs Of The Civil Engineering Students, The Book Will Serve As A Handy Reference For The Practising Engineers As Well. Based on the 1995 edition of the American Concrete Institute Building Code, this text explains the theory and practice of reinforced concrete design in a systematic and clear fashion, with an abundance of step-by-step worked examples, illustrations, and photographs. The focus is on preparing students to make the many judgment decisions required in reinforced concrete design, and reflects the author's experience as both a

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teacher of reinforced concrete design and as a member of various code committees. This edition provides new, revised and expanded coverage of the following topics: core testing and durability; shrinkage and creep; bases the maximum steel ratio and the value of the factor on Appendix B of ACI318-95; composite concrete beams; strut-and-tie models; dapped ends and T-beam flanges. It also expands the discussion of STMs and adds new examples in SI units.

This manual for civil and structural engineers aims to simplify as much as possible a complex subject which is often treated too theoretically, by

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explaining in a practical way how to provide uncomplicated, buildable and economical foundations. It explains simply, clearly and with numerous worked examples how economic foundation design is achieved. It deals with both straightforward and difficult sites, following the process through site investigation, foundation selection and, finally, design. The book: includes chapters on many aspects of foundation engineering that most other books avoid including filled and contaminated sites mining and other man-made conditions features a step-by-step procedure for the design of lightweight and flexible rafts, to

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fill the gap in guidance in this much neglected, yet extremely economical foundation solution concentrates on foundations for building structures rather than the larger civil engineering foundations includes many innovative and economic solutions developed and used by the authors ' practice but not often covered in other publications provides an extensive series of appendices as a valuable reference source. For the Second Edition the chapter on contaminated and derelict sites has been updated to take account of the latest guidelines on the subject, including BS 10175. Elsewhere, throughout the book, references have

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been updated to take account of the latest technical publications and relevant British Standards.

FOUNDATION DESIGN IN PRACTICE

Methods for Raft Foundation Design Including Soil Structure Interaction

Foundation Systems for High-Rise Structures

Support of Underground Excavations in Hard Rock

Construction in Geotechnical Engineering

Soil-Foundation-Structure Interaction contains

selected papers presented at the International

Workshop on Soil-Foundation-Structure Interaction

held in Auckland, New Zealand from 26-27

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November 2009. The workshop was the venue for an international exchange of ideas, disseminating information about experiments, numerical models and practical en

Elastic, Plastic and Yield Design of Reinforced Structures presents a whole set of new results which have been published by the authors over the last 30 years in the field of continuum solid mechanics applied to the analysis and design of reinforced civil engineering structures. The focus is on the development and application of up-scaling/homogenization methods in the design of

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such composite structures, with a special emphasis on the plastic behavior and ultimate strength of materials. The specificity of the book is highlighted by at least two completely innovative concepts which lie at the very heart of the book's originality: the elaboration of a fully comprehensive homogenization-based method for the design of reinforced structures (and not only materials), through the study of macroscopic behavior, and the development of a multiphase model for materials reinforced by linear inclusions, which considerably extends the range of applicability of the classical

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homogenization procedure. Sums up almost thirty years of original research in the field of mechanics applied to the analysis and design of reinforced civil engineering structures Focuses on the application of upscaling/homogenization methods to the design of civil engineering structures Highlights the elaboration of a fully comprehensive homogenization-based method for the design of reinforced structures (and not only materials), through the concept of macroscopic behavior Features development of a multiphase model for materials reinforced by linear inclusions, which

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considerably extends the range of applicability of the classical homogenization procedure.

*This Book Systematically Explains The Basic Principles And Techniques Involved In The Design Of Reinforced Concrete Structures. It Exhaustively Covers The First Course On The Subject At B.E./ B.Tech Level. Important Features: * Exposition Is Based On The Latest Indian Standard Code Is: 456-2000. * Limit State Method Emphasized Throughout The Book. * Working Stress Method Also Explained. * Detailing Aspects Of Reinforcement Highlighted. * Incorporates*

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*Earthquake Resistant Design. * Includes A Large Number Of Solved Examples, Practice Problems And Illustrations. The Book Would Serve As A Comprehensive Text For Undergraduate Civil Engineering Students. Practising Engineers Would Also Find It A Valuable Reference Source.*

The most important conference on soil mechanics and foundation engineering, held every four years. All papers were selected and reviewed by the national societies of the ISSMFE. Nearly all papers in English. Topics: Terzaghi oration - Geotechnical aspects of earthquakes of 1995; Heritage lecture -

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Geotechnics in Germany; Geotechnical aspects of the Great Belt Project and of the Oeresund Projects; Reduction of the differential settlements of the Metropolitan Cathedral in Mexico City by means of under- excavation; Soil testing and ground property characterization; Recent developments in foundation techniques; Retaining structures and excavated slopes; Underground works in urban environment; Soil improvement and reinforcement; Waste disposal and contaminated sites; Recent developments in laboratory stress-strain testing; Ground property characterization by means of

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insitu tests; Interplay between physical and numerical models as applied in engineering practice;

Theory and Practice

THEORY AND PRACTICE OF FOUNDATION DESIGN

New Materials, Structures, Technologies and Calculations

Design of Reinforced Concrete Foundations

Elastic, Plastic and Yield Design of Reinforced Structures

The behaviour of foundation is closely interlinked with the behaviour of soil

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supporting it. This book develops a clear understanding of the soil parameters, bearing capacity, settlement and deformation, and describes the practical methods of designing structural foundations. The book analyses the various types of foundations, namely isolated footing, strip foundation and raft foundation, and their structural design. It discusses piled foundation, the types and behaviour of piles in various soils (cohesive and cohesionless), and their bearing capacity. The book also includes the analysis, design and construction of diaphragm wall foundation used in highway and

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railway tunnels, multi-storey basement and underground metro stations. In addition, it includes the analysis and design of sheet piling foundation, retaining wall and bridge pier foundation. KEY FEATURES : Demonstrates both BS codes of practice and Eurocodes to analyse soil and structural design of foundations and compares the results Includes a number of examples on foundations Provides structural design calculations with step-by-step procedures Gives sufficient numbers of relevant sketches, figures and tables to reinforce the concepts This book is suitable for the senior undergraduate students of

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civil engineering and postgraduate students specializing in geotechnical engineering. Besides, practising engineers will also find this book useful.

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 papers

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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.

Geotechnical Fundamentals and Applications in Construction. New Materials, Structures, Technologies and Calculations contains the papers presented at the International Conference on Geotechnical Fundamentals and Applications in Construction. New Materials, Structures, Technologies and Calculations (GFAC 2019, Saint Petersburg, Russia, 6-8

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February 2019). The contributions present the latest research findings, developments, and applications in the areas of geotechnics, soil mechanics, foundations, geological engineering and share experiences in the design of complex geotechnical objects, and are grouped in 8 sections:

- Analytical decisions and numerical modeling for foundations;
- Design and construction in geologically hazardous conditions;
- Methods for surveying the features of dispersed, rocky soils and structurally unstable soils;
- Exploration, territory improvement and reconstruction in conditions of compact urban

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planning and enterprises, etc.; • Construction, reconstruction and exploitation of infrastructure facilities in different soil conditions; • R&D support and quality control of new materials, design and technology solutions in constructing bases, foundations, underground and surface constructions; • Condition survey and accident evolution analysis in construction; • Up-to-date monitoring techniques in building construction and exploitation. Geotechnical Fundamentals and Applications in Construction. New Materials, Structures, Technologies and Calculations collects the

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state-of-the-art in geotechnology and construction, and will be of interest to academia and professionals in geotechnics, soil mechanics, foundation engineering and geological engineering.

This monograph principally considers the flexural analysis of plain raft foundations and related ground-bearing structures such as strip footings and pad foundations. The text explains and illustrates the basic principles of this difficult subject, and will be of interest to specialist design engineers and to those engaged in advanced study or research.

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Basic and Applied Soil Mechanics
Design of Structural Elements

R.C.C. Designs (Reinforced Concrete Structures)

Substation Structure Design Guide

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

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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 help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation

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design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Available Textbooks, Handbooks, Various Publications And Papers Give Widely Different Approaches For Design Of Raft Foundations. These Approaches Make Their Own Assumptions And Deal With Ideal Raft, Symmetrical In Shape And Loading. In Actual Practice Rafts Are Rarely So. A Structural Designer

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Engaged In The Design Of Raft Foundations Finds It Hard To Select The Method That Can Be Carried Out Within The Time And Cost Available For Design And Give Adequate Safety And Economy. This Book Covers Complete Design Of Raft Foundations Including Piled Rafts, Starting From Their Need, Type, All The Approaches Suggested So Far In Published Literature, Effect Of Assumptions Made And Values Of Variables Selected, On The Design

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Values Of Stresses, And Brings Out The Limitations Of These Approaches Using Actually Constructed Rafts. Results Of Studies Carried Out By The Author Are Summarised And Final Recommendations Given. Solved Examples Are Included For Each Of The Methods Recommended. Comprehensive Treatment Of The Subject Makes The Book Helpful To The Design Engineers, Engineering Teachers, Students And Even Those Who Are Engaged In Further Research.

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Designed primarily as a text for the undergraduate students of civil engineering, this compact and well-organized text presents all the basic topics of reinforced concrete design in a comprehensive manner. The text conforms to the limit states design method as given in the latest revision of Indian Code of Practice for Plain and Reinforced Concrete, IS: 456 (2000). This book covers the applications of design concepts and

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provides a wealth of state-of-the-art information on design aspects of wide variety of reinforced concrete structures. However, the emphasis is on modern design approach. The text attempts to:

- Present simple, efficient and systematic procedures for evolving design of concrete structures.
- Make available a large amount of field tested practical data in the appendices.
- Provide time saving analysis and design aids in the form of

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tables and charts. • Cover a large number of worked-out practical design examples and problems in each chapter.

- Emphasize on development of structural sense needed for proper detailing of steel for integrated action in various parts of the structure. Besides students, practicing engineers and architects would find this text extremely useful.

Analysis, Design and Construction of Foundations outlines methods for

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analysis and design of the construction of shallow and deep foundations with particular reference to case studies in Hong Kong and China, as well as a discussion of the methods used in other countries. It introduces the main approaches used by geotechnical and structural engineers, and the precautions required for planning, design and construction of foundation structures. Some computational methods and computer programmes are reviewed to

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provide tools for performing a more realistic analysis of foundation systems. The authors examine in depth the methods used for constructing shallow foundations, deep foundations, excavation and lateral support systems, slope stability analysis and construction, and ground monitoring for proper site management. Some new and innovative foundation construction methods are also introduced. It is illustrated with case studies of

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failures and defects from actual construction projects. Some advanced and modern theories are also covered in this book. This book is more targeted towards the understanding of the basic behavior and the actual construction of many geotechnical works, and this book is not dedicated to any design code or specification, though Euro codes and Hong Kong code are also used in this book for illustration. It is ideal for consulting geotechnical engineers,

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undergraduate and postgraduate students.

Proceedings of IGC 2018

Engineering and Design

Geotechnics Fundamentals and

Applications in Construction

The Foundation Engineering Handbook

Comprehensive Rcc.Designs

A text that introduces basic theory and uses case studies, worked examples, and design charts to cover types of foundations such as shallow strip and basement structures, and foundation design for various conditions. Includes

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discussion of computer-aided design, and bandw photos and diagrams. This sixth edition contains new material on bridge foundations and the draft Eurocode. For civil engineering undergraduates, and postgraduate students in geotechnical engineering, soil mechanics, and engineering geology.

Annotation copyright by Book News, Inc., Portland, OR

This text presents findings from the 3rd International Geotechnical Seminar, held in Ghent, Belgium. Topics include: American experiences with large diameter bored piles; case histories; static, dynamic and pile integrity testing; and installation parameters and capacity of screwed piles.

This international handbook is essential for geotechnical engineers and engineering geologists responsible for designing and constructing piled foundations. It explains

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general principles and practice and details current types of pile, piling equipment and methods. It includes calculations of the resistance of piles to compressive loads, pile group
Covering common problems, likely failures and their remedies, this is an essential on-site guide to the behaviour of a building's structure. Presented in a clear structure and user-friendly style, the book goes through all the structural aspects of a building and assesses the importance of the different components. It explains the structural behaviour of buildings, giving some of the basics of structures together with plenty of real-life examples and guidance.

Reinforced Concrete

Procedures for Foundation Design of Buildings and Other Structures (except Hydraulic Structures).

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Design and Analysis of Piled Raft Foundations - 2017

Principles and Practices

Pile Design and Construction Practice

The "Red Book" presents a background to conventional foundation analysis and design. The text is not intended to replace the much more comprehensive 'standard' textbooks, but rather to support and augment these in a few important areas, supplying methods applicable to practical cases handled daily by practising engineers and providing the basic soil mechanics background to those methods. It concentrates on the static design for stationary foundation conditions. Although the topic is far from exhaustively treated, it does intend to present most

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of the basic material needed for a practising engineer involved in routine geotechnical design, as well as provide the tools for an engineering student to approach and solve common geotechnical design problems. The Geotechnical Engineering Handbook brings together essential information related to the evaluation of engineering properties of 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,

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sliding and rocking excitations and topics addressed in some detail include: environmental geotechnology and foundations for railroad beds.

Great strides have been made in the art of foundation design during the last two decades. In situ testing, site improvement techniques, the use of geogrids in the design of retaining walls, modified ACI codes, and ground deformation modeling using finite elements are but a few of the developments that have significantly advanced foundation engineering in recent years. What has been lacking, however, is a comprehensive reference for foundation engineers that incorporates these state-of-the-art concepts and techniques. The

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Foundation Engineering Handbook fills that void. It presents both classical and state-of-the-art design and analysis techniques for earthen structures, and covers basic soil mechanics and soil and groundwater modeling concepts along with the latest research results. It addresses isolated and shallow footings, retaining structures, and modern methods of pile construction monitoring, as well as stability analysis and ground improvement methods. The handbook also covers reliability-based design and LRFD (Load Resistance Factor Design)-concepts not addressed in most foundation engineering texts. Easy-to-follow numerical design examples illustrate each technique. Along with its

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unique, comprehensive coverage, the clear, concise discussions and logical organization of The Foundation Engineering Handbook make it the one quick reference every practitioner and student in the field needs.

In Foundation Design: Theory and Practice, Professor N. S. V. Kameswara Rao covers the key aspects of the subject, including principles of testing, interpretation, analysis, soil-structure interaction modeling, construction guidelines, and applications to rational design. Rao presents a wide array of numerical methods used in analyses so that readers can employ and adapt them on their own. Throughout the book the emphasis is on practical application, training readers in actual design

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procedures using the latest codes and standards in use throughout the world. Presents updated design procedures in light of revised codes and standards, covering: American Concrete Institute (ACI) codes Eurocode 7 Other British Standard-based codes including Indian codes Provides background materials for easy understanding of the topics, such as: Code provisions for reinforced concrete Pile design and construction Machine foundations and construction practices Tests for obtaining the design parameters Features subjects not covered in other foundation design texts: Soil-structure interaction approaches using analytical, numerical, and finite element methods

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Analysis and design of circular and annular foundations
Analysis and design of piles and groups subjected to general loads and movements Contains worked out examples to illustrate the analysis and design Provides several problems for practice at the end of each chapter Lecture materials for instructors available on the book's companion website Foundation Design is designed for graduate students in civil engineering and geotechnical engineering. The book is also ideal for advanced undergraduate students, contractors, builders, developers, heavy machine manufacturers, and power plant engineers. Students in mechanical engineering will find the chapter on machine foundations helpful for

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structural engineering applications. Companion website for instructor resources: www.wiley.com/go/rao

Design Applications of Raft Foundations

Deep Foundations on Bored and Auger Piles - BAP III

Structural Foundation Designers' Manual

Design of Foundation Systems

Analysis, Design and Construction of Foundations

The book is primarily intended for undergraduate and postgraduate students of civil engineering. It is also useful for the students of AMIE and a diploma course in civil engineering. The book is planned as a text for the first course in foundation engineering and presents the principles and practices of selection

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and design of foundation for structures in a simple and concise manner. Codal references have been given to acquaint the students with prevalent methodologies adopted in practise in the country. The book provides topics of wide interest such as machine foundation, foundation on problematic soil and ground improvement techniques. A large number of solved examples and multiple choice questions are included to help readers for easy understanding of the principle of design and memorising important details for practical application. The information contained in the book is also helpful for the scholars pursuing research study and practicing engineers confronted in the field. Key Features • Simple and

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systematic presentation of the subject matter. • A large number of solved and unsolved problems for practice. • MCQs with answers to help students appearing in competitive examinations—GATE, IES, IAS etc. • Annexure for ready references in different allied engineering topics.

This comprehensive text on foundation design is intended to introduce students of civil engineering, architecture, and environmental disciplines to the fundamentals of designing sound foundations and their implementation. It offers an in-depth coverage of pre- and post-design methodologies that include soil identification, site investigation, interpretation of soil data and design parameters, foundations on

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different soil types through to settlements, seismic responses, and construction concerns. Though the book is woven around principles of foundation design, it also incorporates application aspects that bridge theory and practice. As an issue of contemporary importance it discusses geotechnical details of developing earthquake resistant designs for different soil types. In addition, the authors provide an extensive account of ground improvement techniques. Supported by the abundance of real-world events/situations and examples that help students master the text concepts, this volume becomes an incisive text and reference guide. Foundation Engineering is of prime importance to

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undergraduate and postgraduate students of civil engineering as well as to practising engineers. For, there is no construction - be it buildings (government, commercial and residential), bridges, highways, or dams - that does not draw from the principles and application of this subject. Unlike many textbooks on Geotechnical Engineering that deal with both Soil Mechanics and Foundation Engineering, this text gives an exclusive treatment and an indepth analysis of Foundation Engineering. What distinguishes the text is that it not merely equips the students with the necessary knowledge for the course and examination, but provides a solid foundation for further practice in their profession

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later. In addition, as the book is based on the Codes prescribed by the Bureau of Indian Standards, students of Indian universities will find it particularly useful. The author is specialized in both Soil Mechanics and Structural Engineering; he studied Soil Mechanics under the guidance of Prof. Terzaghi and Prof. Casagrande of Harvard University - the pioneers of the subject. Similarly, he studied Structural Engineering under Prof. A.L.L. Baker of Imperial College, London, the pioneer of Limit State Design. These specializations coupled with over 50 years of teaching experience of the author make this text authoritative and exhaustive. Intended as a text for undergraduate (Civil Engineering) and

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postgraduate (Geotechnical Engineering and Structural Engineering) students, the book would also be found highly useful to practising engineers and young academics teaching the course.

This book examines alternative design procedures for plain and piled raft foundations. It explores the assumptions that are made in the analysis of soil - structure interaction, together with the associated calculation methods. The book gives many examples of project applications covering a wide range of structural forms and ground conditions.

***DESIGN OF REINFORCED CONCRETE STRUCTURES
Foundation Design and Construction
Basics of Foundation Design***

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Principles of Foundation Engineering Foundation Design

Raft Foundation Design And Analysis With A Practical Approach New Age International
This book focuses on the seismic design of building structures and their foundations to Eurocode 8. It covers the principles of seismic design in a clear but brief manner and then links these concepts to the provisions of Eurocode 8. It addresses the fundamental concepts related to seismic hazard, ground motion models, basic dynamics, seismic analysis, siting considerations, structural layout, and design philosophies,

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then leads to the specifics of Eurocode 8. Code procedures are applied with the aid of walk-through design examples which, where possible, deal with a common case study in most chapters. As well as an update throughout, this second edition incorporates three new and topical chapters dedicated to specific seismic design aspects of timber buildings and masonry structures, as well as base-isolation and supplemental damping. There is renewed interest in the use of sustainable timber buildings, and masonry structures still represent a popular choice in many areas. Moreover, seismic isolation

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and supplemental damping can offer low-damage solutions which are being increasingly considered in practice. The book stems primarily from practical short courses on seismic design which have been run over a number of years and through the development Eurocode 8. The contributors to this book are either specialist academics with significant consulting experience in seismic design, or leading practitioners who are actively engaged in large projects in seismic areas. This experience has provided significant insight into important areas in which guidance is required.

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MOP 113 provides a comprehensive resource for the structural design of outdoor electrical substation structures.

CONTENTS: Part 1:Working Stress Method
1.Introduction 2.Theory of reinforced beams and Slabs 3.Shear and bond 4.Torsion 5.Doubly reinforced beams 6. T and L-Beams 7.Design of beams and Slabs 8.Design of stair cases 9.Reinforced brick and hollow tile roofs 10.Two-way slabs 11.Circular slabs 12.Flat slabs 13.Axially loaded columns 14.Combined direct and bending stresses 15.Continuous and isolated footings 16.Combined footings 17.Pile foundations 18.Retaining Walls Part

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11: Water Tanks 19.Domes 20.Beams curved in plan 21.Water tanks-1 Simple cases 22.Water tanks-11 Circular & INTZE Tanks 23.Water tanks-111: Rectangular tanks 24.Water tanks-IV: Underground tanks Part 111:Miscellaneous Structures 25.Reinforced concrete pipes 26.Bunkers and silos 27.Chimneys 28.Portal frames 29.Building frames Part IV:Concrete Bridges 30. Aqueducts and box culverts 31.Concrete Bridges Part V: Limit State Design 32.Design concepts 33.Singly reinforced section 34.Doubly reinforced sections 35.T and L-Beams 36.Shear bond and torsion 37.Design of beams and slabs

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38.Axially loaded columns 39.Columns with Uniaxial and Biaxial bending 40.Design of stair cases 41.Two way slabs 42.Circular slabs 43.Yield Line theory and design of slabs 44FOUNDATIONS Part IV:Prestressed concrete and Miscellaneous Topics 45.Prestressed concrete 46.Shrinkage and creep 47.Form-Work 48.Tests for cement and concrete

Elastic Analysis of Raft Foundations

FOUNDATION ENGINEERING

Raft Foundation Design And Analysis With A Practical Approach

Comptes rendus du quatorzième conférence

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internationale de Mécanique des sols et des
travaux de fondation, Hambourg, 6-12
septembre 1997
Soil-Foundation-Structure Interaction