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SUSTAINABLE ENERGY focuses directly on energy related issues and includes a thorough treatment of all potentially viable energy sources. In most cases, individual chapters are devoted to each alternative energy approach. Although author Richard

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Dunlap covers past and current energy production methods, the text deals largely with future alternative energy strategies and follows the guidelines of ABET, the major engineering accreditation body. The book approaches these topics on a rigorous

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level -- familiarity with the basic concepts of freshman Physics and Chemistry is needed. The book contains enough material for a typical one semester course. The end-of-chapter problems are predominantly quantitative in nature. However, most

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are not straight forward calculations based on substituting values from the chapter in to the appropriate formula. The problems are designed to require the students to analyze information, to make use of material from previous chapters, to correlate data from various

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sources (not only from the textbook itself but from library, internet or other sources) and in many cases to estimate quantities based on interpretation of graphical data, interpolation of values and sometime just plain common sense. While maintaining a quantitative

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approach to the study of energy in our society, the text and accompanying problems show that this is a complex and very interdisciplinary topic. This approach is intended to provide students with an appreciation for the real problems that are encountered in

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the understanding of how we produce and use energy, and the realization that, while exact calculations are important and necessary, a broadly based analysis is often most appropriate. Important Notice: Media content referenced within the product description or the

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product text may not be available in the ebook version.

Theoretical Foundation Engineering provides up-to-date, state-of-the-art reviews of the existing literature on lateral earth pressure, sheet pile walls, ultimate bearing capacity of shallow

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foundations, holding capacity of plate and helical anchors in sand and clay, and slope stability analysis. The discussion of the ultimate bearing capacity of shallow foundations is the most comprehensive presentation on the subject to be found anywhere, and

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the review of earth anchors is unique to this book. In addition, each chapter includes several topics which have never appeared in any other book. The treatment is primarily theoretical and does not in any way compete with existing foundation design books. This

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is the only textbook of its kind. Not only will it be welcomed by teachers and first-year graduate students of geotechnical engineering, but it will be a useful reference for graduate students and consultants in the the field, as well as being a valuable addition to any civil

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engineering library.

Publisher Description

Second in a series of publications from the Institute of Medicine's Quality of Health Care in America project Today's health care providers have more research findings and more technology

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available to them than ever before. Yet recent reports have raised serious doubts about the quality of health care in America. Crossing the Quality Chasm makes an urgent call for fundamental change to close the quality gap. This book recommends a sweeping

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redesign of the American health care system and provides overarching principles for specific direction for policymakers, health care leaders, clinicians, regulators, purchasers, and others. In this comprehensive volume the committee offers: A set of

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performance expectations for the 21st century health care system. A set of 10 new rules to guide patient-clinician relationships. A suggested organizing framework to better align the incentives inherent in payment and accountability with improvements in quality. Key

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steps to promote evidence-based practice and strengthen clinical information systems. Analyzing health care organizations as complex systems, *Crossing the Quality Chasm* also documents the causes of the quality gap, identifies current practices that

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impede quality care, and explores how systems approaches can be used to implement change.

The Foundation Engineering Handbook
Geotechnical Engineering Handbook
Steel Design
A Comprehensive Foundation

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C Edition

Learn the basics of soil mechanics and foundation engineering This hands-on guide shows, step by step, how soil mechanics principles can be applied to

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solve geotechnical and foundation engineering problems. Presented in a straightforward, engaging style by an experienced PE, Soil Mechanics and Foundation Engineering:

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Fundamentals and Applications starts with the basics, assuming no prior knowledge, and gradually proceeds to more advanced topics. You will get rich illustrations, worked-out

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examples, and real-world case studies that help you absorb the critical points in a short time. Coverage includes: Phase relations Soil classification Compaction Effective stresses

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Permeability and seepage
Vertical stresses under
loaded areas Consolidation
Shear strength Lateral earth
pressures Site investigation
Shallow and deep
foundations Earth retaining

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structures Slope stability

Reliability-based design

A groundbreaking book in
this field, Software

Engineering Foundations: A
Software Science

Perspective integrates the

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latest research, methodologies, and their applications into a unified theoretical framework. Based on the author's 30 years of experience, it examines a wide range of underlying

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theories from philosophy,
cognitive informatics, denota
A must have reference for
any engineer involved with
foundations, piers, and
retaining walls, this
remarkably comprehensive

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volume illustrates soil characteristic concepts with examples that detail a wealth of practical considerations, It covers the latest developments in the design of drilled pier

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foundations and mechanically stabilized earth retaining wall and explores a pioneering approach for predicting the nonlinear behavior of laterally loaded long vertical and batter piles.

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As complete and authoritative as any volume on the subject, it discusses soil formation, index properties, and classification; soil permeability, seepage, and the effect of water on

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stress conditions; stresses due to surface loads; soil compressibility and consolidation; and shear strength characteristics of soils. While this book is a valuable teaching text for

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advanced students, it is one that the practicing engineer will continually be taking off the shelf long after school lets out. Just the quick reference it affords to a huge range of tests and the

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appendices filled with essential data, makes it an essential addition to an civil engineering library.

For undergraduate/graduate-level foundation engineering courses. Covers the subject

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matter thoroughly and systematically, while being easy to read. Emphasizes a thorough understanding of concepts and terms before proceeding with analysis and design, and carefully

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integrates the principles of foundation engineering with their application to practical design problems.

Design of Reinforced
Concrete

Theoretical Foundation

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Engineering

Principles and Practices

Principles of Foundation

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Foundations of Computer

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Science

The Geotechnical Engineering Handbook brings together essential information related to the evaluation of engineering properties of soils, design of foundations such as spread

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**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**

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**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**

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foundations for railroad beds.

**With "Sustainability: A
Comprehensive Foundation," first
and second-year college students
are introduced to this expanding
new field, comprehensively
exploring the essential concepts**

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from every branch of knowledge - including engineering and the applied arts, natural and social sciences, and the humanities. As sustainability is a multi-disciplinary area of study, the text is the product of multiple authors

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drawn from the diverse faculty of the University of Illinois: each chapter is written by a recognized expert in the field.

Readers gain a valuable overview of soil properties and mechanics together with coverage of field

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**practices and basic engineering
procedures with Das and
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GEOTECHNICAL
ENGINEERING, 9E. This
introduction to geotechnical
engineering forms an important**

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foundation for future civil engineers. This book provides critical background knowledge readers need to support any advanced study in design as well as to prepare them for professional practice. The authors

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ensure a practical and application-oriented approach to the subject by incorporating a wealth of comprehensive discussions and detailed explanations. Readers find more figures and worked-out problems than any other book for

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**the course to ensure
understanding. Important Notice:
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The revision of this best-selling

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**text for a junior/senior course in
Foundation Analysis and Design
now includes an IBM computer
disk containing 16 compiled
programs together with the data
sets used to produce the output
sheets, as well as new material on**

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sloping ground, pile and pile group analysis, and procedures for an improved analysis of lateral piles. Bearing capacity analysis has been substantially revised for footings with horizontal as well as vertical loads. Footing design for

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overturning now incorporates the use of the same uniform linear pressure concept used in ascertaining the bearing capacity. Increased emphasis is placed on geotextiles for retaining walls and soil nailing.

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Design of Wood Structures – ASD
Moran's Principles of Engineering
Thermodynamics
Sustainable Energy, SI Edition
Soil Mechanics and Foundation
Engineering
Crossing the Quality Chasm

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This book is intended primarily to serve the needs of the undergraduate civil engineering student and aims at the clear explanation, in adequate depth, of the fundamental principles of soil mechanics. The

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understanding of these principles is considered to be an essential foundation upon which future practical experience in soils engineering can be built. The choice of material involves an element of

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personal opinion but the contents of this book should cover the requirements of most undergraduate courses to honours level. It is assumed that the student has no prior knowledge of the subject but has a good

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understanding of basic mechanics. The book includes a comprehensive range of worked examples and problems set for solution by the student to consolidate understanding of the fundamental principles and

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illustrate their application in simple practical situations. The International System of Units is used throughout the book. A list of references is included at the end of each chapter as an aid to

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the more advanced study of any particular topic. It is intended also that the book will serve as a useful source of reference for the practising engineer. In the third edition no changes have been made to the aims

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of the book. Except for the order of two chapters being interchanged and for minor changes in the order of material in the chapter on consolidation theory, the basic structure of the book is unaltered.

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*Moran's Principles of
Engineering Thermodynamics,
SI Version, continues to
offer a comprehensive and
rigorous treatment of
classical thermodynamics,
while retaining an
engineering perspective.*

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With concise, applications-oriented discussion of topics and self-test problems, this book encourages students to monitor their own learning. This classic text provides a solid foundation for

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subsequent studies in fields such as fluid mechanics, heat transfer and statistical thermodynamics, and prepares students to effectively apply thermodynamics in the practice of engineering.

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This edition is revised with additional examples and end-of-chapter problems to increase student comprehension.

Principles of Management is designed to meet the scope and sequence requirements of

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the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach. Management is a broad business discipline,

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and the Principles of Management course covers many management areas such as human resource management and strategic management, as well as behavioral areas such as motivation. No one individual can be an expert

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*in all areas of management,
so an additional benefit of
this text is that
specialists in a variety of
areas have authored
individual chapters.*

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Notre Dame

One of the core roles of a practising geotechnical engineer is to analyse and design foundations. This textbook for advanced undergraduates and graduate students covers the

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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

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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

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side, the book introduces construction and testing methods used in current practice. Throughout it emphasizes the connection between theory and practice. It prepares readers for the more sophisticated non-

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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

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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

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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.

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Principles of Management

Soil Mechanics

*Principles of Foundation
Engineering, SI Edition*

*A New Health System for the
21st Century*

*Appraisal, Synthesis, and
Generation of Evidence*

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For more than 50 years, Dubois' Lupus Erythematosus and Related Syndromes has been recognized internationally as the go-to clinical reference on lupus and other connective tissue diseases. From basic scientific principles to practical points of clinical management, the

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updated 9th Edition provides extensive, authoritative coverage of systemic lupus erythematosus (SLE) and its related diseases in a logical, clearly written, user-friendly manner. It's an ideal resource for rheumatologists and internal medicine practitioners who need a

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comprehensive clinical reference on all aspects of SLE, connective tissue diseases, and the antiphospholipid syndromes. Provides complete clinical coverage of every aspect of cutaneous and systemic lupus erythematosus, including definitions, pathogenesis, autoantibodies, clinical

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and laboratory features, management, prognosis, and patient education. Contains an up-to-date overview of significant advances in cellular, molecular, and genetic technologies, including genetic advancements in identifying at-risk patients. Offers an increased focus

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on the clinical management of related disorders such as Sjogren's syndrome, scleroderma, polymyositis, and antiphospholipid syndrome (APS). Presents the knowledge and expertise of more international contributors to provide new global perspectives on

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manifestations, diagnosis, and treatment. Features a vibrant, full-color format, with graphs, algorithms, differential diagnosis comparisons, and more schematic diagrams throughout.

Soil-structure interaction is an area of major importance in geotechnical

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engineering and geomechanics
Advanced Geotechnical Engineering:
Soil-Structure Interaction using
Computer and Material Models
covers computer and analytical
methods for a number of
geotechnical problems. It introduces
the main factors important to the

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application of computer
STEEL DESIGN covers the
fundamentals of structural steel
design with an emphasis on the
design of members and their
connections, rather than the
integrated design of buildings. The
book is designed so that instructors

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can easily teach LRFD, ASD, or both, time-permitting. The application of fundamental principles is encouraged for design procedures as well as for practical design, but a theoretical approach is also provided to enhance student development. While the book is intended for junior-

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and senior-level engineering students, some of the later chapters can be used in graduate courses and practicing engineers will find this text to be an essential reference tool for reviewing current practices. Important Notice: Media content referenced within the product

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□ABOUT THE BOOK: Soil Mechanics and Foundation Engineering (Geotechnical Engineering) is a fast developing branch of Civil Engineering and its study is essential for the successful execution and

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maintenance of several civil engineering works. The subject of Soil Mechanics and Foundation Engineering forms a part of the curriculum for the students of Civil Engineering. A good text book for the subject is therefore necessary to facilitate proper comprehension of

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the subject by the students. There are several books available on the subject Soil Mechanics and Foundation Engineering, but the author feels that each of the available books is lacking in one respect or the other. As such none of the available books on the subject is

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complete in all respects. The author has therefore made an earnest attempt to bring out a book on the subject which may be reckoned as a complete text book in all respects. The text of the book has been divided in two Parts. The Part I deals with the Fundamental Principles of Soil

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Mechanics. The Part II deals with the Earth Retaining Structures and Foundation Engineering. The subject matter has been presented in a simple unambiguous language which is easy to comprehend. The book covers the syllabus of this subject prescribed by the most of the Indian

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Universities for the undergraduate courses. □OUTSTANDING FEATURES : The text has been divided into 2 parts:- (i) Fundamental principles of soil mechanics (ii) Earth retaining Structures & Foundation Engg. The text has been supported by:- (i) Illustrative Examples. (ii)

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Multiple Choice Ques. (Provided in Appendix) (iii) Competitive Examination Ques. Fo -Eng. Services, Indian Civil Service & those preparing for AMIE examinations
□RECOMMENDATIONS: Degree, Diploma and A.I.M.E. (India)
Students and Practicing Civil

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Engineers □ABOUT THE AUTHOR:
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Jaipur □BOOK DETAILS: ISBN:

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Principles and Practices Package
Foundation Design: Pearson New
International Edition

Foundation Analysis and Design
Communities in Action

Geotechnical Engineering:
Principles and Practices, 2/e, is
ideal or junior-level soil mechanics

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or introductory geotechnical engineering courses. This introductory geotechnical engineering textbook explores both the principles of soil mechanics and their application to engineering practice. It offers a rigorous, yet

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accessible and easy-to-read approach, as well as technical depth and an emphasis on understanding the physical basis for soil behavior. The second edition has been revised to include updated content and many new

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problems and exercises, as well as to reflect feedback from reviewers and the authors' own experiences. The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix

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decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to

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efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these

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concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these

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derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes

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worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

In the United States, some populations suffer from far greater disparities in health than others.

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Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of

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an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and

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decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they

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are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United

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States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and

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structural barriers that need to be overcome.

Now in its sixth edition, Soil Mechanics Laboratory Manual is designed for the junior-level soil mechanics/geotechnical engineering laboratory course in

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civil engineering programs. It includes eighteen laboratory procedures that cover the essential properties of soils and their behavior under stress and strain, as well as explanations, procedures, sample calculations, and completed

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and blank data sheets. Written by Braja M. Das, respected author of market-leading texts in geotechnical and foundation engineering, this unique manual provides a detailed discussion of standard soil classification systems

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used by engineers: the AASHTO Classification System and the Unified Soil Classification System, which both conform to recent ASTM specifications. To improve ease and accessibility of use, this new edition includes not only the stand-

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alone version of the Soil Mechanics Laboratory Test software but also ready-made Microsoft Excel(r) templates designed to perform the same calculations. With the convenience of point and click data entry, these interactive programs

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can be used to collect, organize, and evaluate data for each of the book's eighteen labs. The resulting tables can be printed with their corresponding graphs, creating easily generated reports that display and analyze data obtained

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from the manual's laboratory tests. Features . Includes sample calculations and graphs relevant to each laboratory test . Supplies blank tables (that accompany each test) for laboratory use and report preparation . Contains a complete

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chapter on soil classification
(Chapter 9) . Provides references
and three useful appendices:
Appendix A: Weight-Volume
Relationships Appendix B: Data
Sheets for Laboratory Experiments
Appendix C: Data Sheets for

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Preparation of Laboratory Reports"
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A Practical Problem Solving
Approach

Geology: A Very Short Introduction

**FUNDAMENTALS OF
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powerful combination of**

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**essential components from
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books: PRINCIPLES OF
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ENGINEERING and
PRINCIPLES OF FOUNDATION
ENGINEERING in one cohesive**

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book. This unique, concise geotechnical engineering book focuses on the fundamental concepts of both soil mechanics and foundation engineering without the distraction of excessive details

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**or cumbersome alternatives. A
wealth of worked-out, step-by-
step examples and valuable
figures help readers master
key concepts and strengthen
essential problem solving
skills. Prestigious authors Das**

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and Sivakugan maintain the careful balance of today's most current research and practical field applications in a proven approach that has made Das' books leaders in the field.

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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 -

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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

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**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**

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**for the course and
examination, but provides a
solid foundation for further
practice in their profession
later. In addition, as the book
is based on the Codes
prescribed by the Bureau of**

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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

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**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**

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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

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

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course.

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

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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

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lacking, however, is a comprehensive reference for foundation engineers that incorporates these state-of-the-art concepts and techniques. The Foundation Engineering Handbook fills that void. It

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**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**

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