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Keeping this in mind, the present
book is designed by the author

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based on his vast experience spanning about four decades, as a basic first course, in particular, to the students of Civil Engineering. The contents of the book are dealt under eleven chapters. Now in full colour, the third edition

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of this well established book provides a readable and highly illustrated overview of the aspects of geology that are most significant to civil engineers. Sections in the book include those devoted to the main rock types, weathering,

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ground investigation, rock mass strength, failures of old mines, subsidence on peats and clays, sinkholes on limestone and chalk, water in landslides, slope stabilization and understanding ground conditions. The roles of

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both natural and man-induced processes are assessed, and this understanding is developed into an appreciation of the geological environments potentially hazardous to civil engineering and construction projects. For each style of difficult

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ground, available techniques of site investigation and remediation are reviewed and evaluated. Each topic is presented as a double page spread with a careful mix of text and diagrams, with tabulated reference material on parameters

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such as bearing strength of soils and rocks. This new edition has been comprehensively updated and covers the entire spectrum of topics of interest for both students and practitioners in the field of civil engineering.

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"Physical Geology is a comprehensive introductory text on the physical aspects of geology, including rocks and minerals, plate tectonics, earthquakes, volcanoes, glaciation, groundwater, streams, coasts, mass wasting, climate

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change, planetary geology and much more. It has a strong emphasis on examples from western Canada, especially British Columbia, and also includes a chapter devoted to the geological history of western Canada. The

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book is a collaboration of faculty from Earth Science departments at Universities and Colleges across British Columbia and elsewhere"--BCcampus website.
Introduction to Maintenance and Repair* Foundation Maintenance*

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Anti-Termite Measures*
Maintenance of Brick and Stone
Masonry* Building Maintenance,
Repair Organisation & Accounts*
Cracks in Masonry Structures and
their Prvention* Cracks in R.C.C.
Structures and their Prvention*

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Joints. Repairs and
MMmaintenance of Concrete
Elements* Maintenance and Repair
of Finishes* Water Supply Systems
and its Maintenance* Sanitation
System and its Maintenance*
Maintenance of Canals*

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Maintenance of Earth
Embankments* Hinghway
Drainage. its Failure and
Maintenance* Railway Track
Drainage* Maintenance of Railway
Track* Defects and Failure of Rails*
Maintenance of Welded Rails*

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Measured Shovel Packing
Maintenance* Modern Methods of
Track Maintenance* Maintenance
of Timber Works* Inspection of
Culverts and Bridges* Maintenance
of Bridges* River Training Works*
Safety Measures in Maintenance

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Buildings* Dilapidation of Building
and their Rehabilitation* Appendix.
Introduction to Thermal and Fluids
Engineering
Engineering Geology for
Underground Rocks

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Air Pollution Control
(in S.I. Units)

Principles and Practices of Soil
Mechanics and Foundation
Engineering

Textbook of Engineering

Geology Textbook of Engineering

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Geology Macmillan

The comprehensive study of electric, magnetic and combined fields is nothing but electromagnetic engineering. Along with electronics, electromagnetics plays an important role in other

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branches. The book is structured to cover the key aspects of the course Electromagnetic Field Theory for undergraduate students. The knowledge of vector analysis is the base of electromagnetic engineering. Hence book starts

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with the discussion of vector analysis. Then it introduces the basic concepts of electrostatics such as Coulomb's law, electric field intensity due to various charge distributions, electric flux, electric flux density, Gauss's law,

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divergence and divergence theorem. The book continues to explain the concept of elementary work done, conservative property, electric potential and potential difference and the energy in the electrostatic fields. The detailed

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discussion of current density, continuity equation, boundary conditions and various types of capacitors is also included in the book. The book provides the discussion of Poisson's and Laplace's equations and their use

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in variety of practical applications.

The chapter on magnetostatics incorporates the explanation of Biot-Savart's law, Ampere's circuital law and its applications, concept of curl, Stoke's theorem, scalar and vector magnetic

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potentials. The book also includes the concept of force on a moving charge, force on differential current element and magnetic boundary conditions. The book covers all the details of Faraday's laws, time varying fields, Maxwell's

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equations and Poynting theorem.

Finally, the book provides the detailed study of uniform plane waves including their propagation in free space, perfect dielectrics, lossy dielectrics and good conductors. The book uses plain,

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lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. The variety of solved examples is the feature of this book

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which helps to inculcate the knowledge of the electromagnetics in the students. Each chapter is well supported with necessary illustrations and self-explanatory diagrams. The book explains the philosophy of the subject which

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makes the understanding of the concepts very clear and makes the subject more interesting.

The popularity of all the earlier thirteen editions of the book among the students as well as the teachers has made it possible to bring out

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the fourteenth edition of the book so soon. In this edition the book has been brought out in A-4 size thereby considerably enhancing the general get-up of the book. The book in this fourteenth edition is entirely in SI Units and it has been

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thoroughly revised in the light of the valuable suggestions received from the learned professors and the students of the various Universities. Accordingly several new articles have been added. The answers of all the illustrative examples and the

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problems have been checked and corrected. Moreover, several new problems from the latest question papers of the different Universities as well as competitive examinations have been incorporated. Thus, it may be emphatically stated that the

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book is complete in all respects and it covers the entire syllabus in the subject for degree students in the different branches of engineering for almost all the Universities.

Therefore this Single Book fulfills the entire needs of the students

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*intending to appear at the various
University Examinations and also
for those intending to appear at the
various competitive examination
such as engineering services and
the ICS examinations and for those
preparing for AMIE examinations.*

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OUTSTANDING FEATURES "

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entire subject matter of Fluid
Mechanics, Hydraulics and
Hydraulic Machines. " SI Units
used for the entire book " More
than 200 multiple choice questions***

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with answers " Appendix

*containing computer programs to
solve problems of uniform and
critical flows in open channels. "*

*Ten appendixes dealing with some
important topics.*

Calculus Made Easy by Silvanus P.

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Thompson and Martin Gardner has long been the most popular calculus primer, and this major revision of the classic math text makes the subject at hand still more comprehensible to readers of all levels. With a new introduction,

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three new chapters, modernized language and methods throughout, and an appendix of challenging and enjoyable practice problems, Calculus Made Easy has been thoroughly updated for the modern reader.

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Geology for Civil Engineers

Principles and Practice

Surveying Vol. I

Hydraulics And Fluid Mechanics

Including Hydraulics Machines

Electromagnetic Field Theory

In this book the task of summarising

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modern petrology I from the genetic standpoint has been attempted. The scale of the work is small as compared with the magnitude of its subject, but it is nevertheless believed that the field has been reasonably covered. In conformity with the genetic viewpoint petrology, as contrasted with

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petrography, has been emphasised throughout; and purely descriptive mineralogical and petrographical detail has been omitted. Every petrologist who reads this book will recognise the author's indebtedness to Dr. A. Harker and Dr. A. Holmes, among British workers; to Prof. R. A.

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Daly, Dr. H. S. Washington, and Dr. N. L. Bowen, among American petrologists; and to Prof. J. H. L. Vogt, Prof. V. M. Goldschmidt, Prof. A. Lacroix, and Prof. P. Niggli. among European investigators. The emphasis laid on modern views, and the relative poverty of references to the works of

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the older generation of petrologists, does not imply any disrespect of the latter. It is due to recognition of the desirability of affording the petrological student a newer and wider range of reading references than is usually supplied in this class of work; for refer ences tend to become

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stereotyped as well as text and illustrations. Furthermore it is believed that all that is good and living in the older work has been incorporated, consciously or unconsciously, in the newer. Railway Engineering has been specially designed for undergraduate

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students of civil engineering. From fundamental topics to modern technological developments, the book covers all aspects of the railways including various modernization plans covering tracks, locomotives, and rolling stock. Important statistical data about the Indian Railways and other

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useful information have also been incorporated to make the coverage comprehensive. A number of illustrative examples supplement text to aid easy understanding of design methods discussed. The book should also serve the need of students of polytechnics and those appearing of

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the AMIE examination and would also be a ready reference for railway professionals.

Fundamentals of Materials Science and Engineering takes an integrated approach to the sequence of topics – one specific structure, characteristic, or property type is covered in turn for

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all three basic material types: metals, ceramics, and polymeric materials. This presentation permits the early introduction of non-metals and supports the engineer's role in choosing materials based upon their characteristics. Using clear, concise terminology that is familiar to

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students, Fundamentals presents material at an appropriate level for both student comprehension and instructors who may not have a materials background.

The "Red Book" presents a background to conventional foundation analysis and design. The

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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

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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 of the basic material needed for a practising engineer involved in routine geotechnical design, as well as

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provide the tools for an engineering student to approach and solve common geotechnical design problems.

Business Economics

Theory, Applications, and Numerics

Building Materials

Engineering Geology and Rock

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Mechanics

Fundamentals of Materials Science
and Engineering: An Integrated
Approach, 5th Edition

Engineering Geology is a
multidisciplinary subject which
interacts with other disciplines, such as

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mineralogy, petrology, structural geology, hydrogeology, seismic engineering, rock engineering, soil mechanics, geophysics, remote sensing (RS-GIS-GPS), environmental geology, etc. Engineers require a deeper understanding, interpretation

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and analyses of earth sciences before suggesting engineering designs and remedial measures to combat natural disasters, such as earthquakes, volcanoes, landslides, debris flows, tsunamis, and floods. This book covers all aspects of Engineering Geology and

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is intended to serve as a reference for practicing civil engineers and mining engineers. Engineering Geology has also been designed as a textbook for students pursuing undergraduate and postgraduate courses in advanced/applied geology and earth

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sciences. A plethora of examples and case studies relevant to the Indian context have been included, for better understanding of the geological challenges faced by engineers.

This innovative book uses unifying themes so that the boundaries between

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thermodynamics, heat transfer, and fluid mechanics become transparent. It begins with an introduction to the numerous engineering applications that may require the integration of principles and tools from these disciplines. The authors then present an

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in-depth examination of the three disciplines, providing readers with the necessary background to solve various engineering problems. The remaining chapters delve into the topics in more detail and rigor. Numerous practical engineering applications are mentioned

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throughout to illustrate where and when certain equations, concepts, and topics are needed. A comprehensive introduction to thermodynamics, fluid mechanics, and heat transfer, this title: Develops governing equations and approaches in sufficient detail, showing

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how the equations are based on fundamental conservation laws and other basic concepts. Explains the physics of processes and phenomena with language and examples that have been seen and used in everyday life. Integrates the presentation of the three

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subjects with common notation, examples, and problems. Demonstrates how to solve any problem in a systematic, logical manner. Presents material appropriate for an introductory level course on thermodynamics, heat transfer, and fluid mechanics.

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The book provides conceptual understanding of essential concepts in business life. It details the foundations of business economics with special emphasis on demand analysis and consumer behaviour. It also discusses analysis of production and cost of the

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firm, market structures and pricing of products, factor pricing and income distribution and concludes with the discussion of capital budgeting. Based on the author's extensive teaching experience, the book champions a collaborative approach to delivering an

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appropriate textbook that is curriculum relevant.

This text on building materials includes discussion of structural clay products, rocks and stones, wood, materials for making concrete, ferrous and non-ferrous metals, and miscellaneous

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materials.

Elasticity

Electrical Power Systems

Textbook of Engineering Geology

Machine Drawing

A Textbook of Strength of Materials

Textbook of Engineering Geology

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presents study of geology comprehensively from a civil engineering point of view. The author contends that mere technical perfection cannot ensure the safety and success of large-scale civil engineering constructions such a

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A must have reference for any engineer involved with foundations, piers, and retaining walls, this remarkably comprehensive volume illustrates soil characteristic concepts with examples that detail a wealth of practical considerations, It

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covers the latest developments in the design of drilled pier 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 stress conditions; stresses due to surface loads; soil

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compressibility and consolidation; and shear strength characteristics of soils. While this book is a valuable teaching text for advanced students, it is one that the practicing engineer will continually be taking off the shelf long after school lets out. Just

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the quick reference it affords to a huge range of tests and the appendices filled with essential data, makes it an essential addition to an civil engineering library.

the undergraduate course in structural steel design using the

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Load and Resistance Factor Design Method (LRFD). The text also enables practicing engineers who have been trained to use the Allowable Stress Design procedure (ASD) to change easily to this more economical and realistic method for

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proportioning steel structures. The book comes with problem-solving software tied to chapter exercises which allows student to specify parameters for particular problems and have the computer assist them. On-screen information about how to

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use the software and the significance of various problem parameters is featured. The second edition reflects the revised steel specifications (LRFD) of the American Institute of Steel Construction.

Geology is the science of earth's

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crust (lithosphere) consisting of rocks and soils. While mining and mineralogical engineers are more interested in rocks, their petrology (formation) and mineralogy, civil engineers are equally interested in soils and rocks, in their formations,

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and also in their properties for civil engineering design and construction.

This book is so written that the subject can easily be taught by a civil engineering faculty member specialised in soil mechanics.

Dexterously organized into four

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parts, this book in Part I (Chapters 1 to 11) deals with the formation of rocks and soils. The classification of soils, lake deposits, coastal deposits, wind deposits along with marshes and bogs are described in Part II (Chapters 12 to 20). As the book

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advances, it deals with the civil engineering problems connected with soils and rocks such as landslides, rock slides, mudflow, earthquakes, tsunami and other natural phenomena in Part III (Chapters 21 to 24). Finally, in Part

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IV (Chapters 25 to 30), this text discusses the allied subjects like the origin and nature of cyclones, rock mass classification and soil formation. Designed to serve as a textbook for the undergraduate students of civil engineering, this

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book is equally useful for the practising civil engineers. SALIENT FEATURES : Displays plenty of figures to clarify the concepts
Includes chapter-end review exercises to enhance the problem-solving skills of the students

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Summary at the end of each chapter brings into focus the essence of the chapter Appendices at the end of the text supply extra information on important topics

A Textbook of Applied Mechanics
CHEMICAL PROCESS

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MODELLING AND COMPUTER SIMULATION

Basic Structural Analysis (SI Units)

An Introduction to Geotechnical
Engineering

Foundations of Engineering

Geology

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Professionals and students in any geology-related field will find this an essential reference. It clearly and systematically explains underground engineering geology principles, methods, theories and case studies. The authors lay out engineering problems in

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underground rock engineering and how to study and solve them. The book specially emphasizes mechanical and hydraulic couplings in rock engineering for wellbore stability, mining near aquifers and other underground structures where inflow is a problem.

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Updated with modern coverage, a streamlined presentation, and an excellent companion CD, this sixth edition achieves yet again an unmatched balance between theory and application. Authors Charles H. Roth, Jr. and Larry L. Kinney carefully present the theory that is

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necessary for understanding the fundamental concepts of logic design while not overwhelming students with the mathematics of switching theory. Divided into 20 easy-to-grasp study units, the book covers such fundamental concepts as Boolean algebra, logic gates

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design, flip-flops, and state machines. By combining flip-flops with networks of logic gates, students will learn to design counters, adders, sequence detectors, and simple digital systems. After covering the basics, this text presents modern design

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techniques using programmable logic devices and the VHDL hardware description language. This book is written to explain the influence ground conditions can have upon engineering with rocks and soils, and upon designing, analysing and executing an

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engineered response to the geological and geomorphological processes acting on them; these subjects form the essence of Engineering Geology. The text is written for students of the subject, either geologists or engineers, who encounter the challenge of

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idealising the ground and its processes for the purposes of design and of quantifying them for the purpose of analysis. With this in mind the book describes how geology can dictate the design of ground investigations, influence the interpretation of its findings, and be

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incorporated into design and analysis. The reader is constantly reminded of basic geology; the "simple" things that constitute the "big picture", a neglect of which may cause design and analyses to be at fault, and construction not to function as it should.

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Although there are several books in print dealing with elasticity, many focus on specialized topics such as mathematical foundations, anisotropic materials, two-dimensional problems, thermoelasticity, non-linear theory, etc. As such they are not

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appropriate candidates for a general textbook. This book provides a concise and organized presentation and development of general theory of elasticity. This text is an excellent book teaching guide. Contains exercises for student engagement as well as the

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integration and use of MATLAB
Software Provides development of
common solution methodologies
and a systematic review of
analytical solutions useful in
applications of
Principles of Engineering Geology
Railway Engineering

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Physical Geology

Design and Analysis

"Intended for use in the first of a two course sequence in geotechnical engineering usually taught to third- and fourth-year undergraduate civil

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engineering students. An Introduction to Geotechnical Engineering offers a descriptive, elementary introduction to geotechnical engineering with applications to civil engineering practice." --Publisher's website.

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This seasoned textbook introduces geology for civil engineering students. It covers minerals and rocks, superficial deposits and the distribution of rocks at or below the surface. It then looks at groundwater and gives guidance on the

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exploration of a site before looking at the civil engineering implications of rocks and the main geological factors which affect typical engineering projects.

About the Book: Written by three distinguished authors with ample

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academic and teaching experience,
this textbook, meant for diploma and
degree students of Mechanical
Engineering as well as those
preparing for AMIE examination,
incorporates the latest st

This comprehensive textbook

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introduces electrical engineers to the most relevant concepts and techniques in electric power systems engineering today. With an emphasis on practical motivations for choosing the best design and analysis approaches, the

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author carefully integrates theory and application. Key features include more than 500 illustrations and diagrams, clearly developed procedures and application examples, important mathematical details, coverage of both alternating

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and directcurrent, an additional set of solved problems at the end of eachchapter, and an historical overview of the development of electricpower systems. This book will be useful to both power engineeringstudents and professional

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power engineers.

Textbook of Physical Geology

Basics of Foundation Design

ENGINEERING GEOLOGY FOR
CIVIL ENGINEERS

LRFD Method

The Principles of PETROLOGY

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A 25-year tradition of excellence is extended in the Fourth Edition of this highly regarded text. In clear, authoritative language, the authors discuss the philosophy and procedures for the design of air pollution control systems. Their

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objective is twofold: to present detailed information on air pollution and its control, and to provide formal design training for engineering students. New to this edition is a comprehensive chapter on carbon dioxide control, perhaps

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the most critical emerging issue in the field. Emphasis is on methods to reduce carbon dioxide emissions and the technologies for carbon capture and sequestration. An expanded discussion of control technologies for coal-fired power plants includes

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details on the capture of NO_x and mercury emissions. All chapters have been revised to reflect the most recent information on U.S. air quality trends and standards. Moreover, where available, equations for equipment cost

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estimation have been updated to the present time. Abundant illustrations clarify the concepts presented, while numerous examples and end-of-chapter problems reinforce the design principles and provide opportunities for students to enhance

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their problem-solving skills.

'Engineering geology' is one of those terms that invite definition. The American Geological Institute, for example, has expanded the term to mean 'the application of the geological sciences to engineering

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practice for the purpose of assuring that the geological factors affecting the location, design, construction, operation and maintenance of engineering works are recognized and adequately provided for'. It has also been defined by W. R. Judd in

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the McGraw-Hill Encyclopaedia of Science and Technology as 'the application of education and experience in geology and other geosciences to solve geological problems posed by civil engineering structures'. Judd goes on to specify

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those branches of the geological or geo-sciences as surface (or surficial) geology, structural/fabric geology, geohydrology, geophysics, soil and rock mechanics. Soil mechanics is firmly included as a geological science in spite of the perhaps rather

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unfortunate trends over the years (now happily being reversed) towards purely mechanistic analyses which may well provide acceptable solutions for only the simplest geology. Many subjects evolve through their subject areas from an

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interdisciplinary background and it is just such instances that pose the greatest difficulties of definition. Since the form of educational development experienced by the practitioners of the subject ultimately bears quite strongly upon the

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corporate concept of the term 'engineering geology', it is useful briefly to consider that educational background.

This comprehensive and thoroughly revised text, now in its second edition, continues to present the

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fundamental concepts of how mathematical models of chemical processes are constructed and demonstrate their applications to the simulation of two of the very important chemical engineering systems: the chemical reactors and

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distillation systems. The book provides an integrated treatment of process description, mathematical modelling and dynamic simulation of realistic problems, using the robust process model approach and its simulation with efficient numerical

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techniques. Theoretical background materials on activity coefficient models, equation of state models, reaction kinetics, and numerical solution techniques—needed for the development of mathematical models—are also addressed in the

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book. The topics of discussion related to tanks, heat exchangers, chemical reactors (both continuous and batch), biochemical reactors (continuous and fed-batch), distillation columns (continuous and batch), equilibrium flash vaporizer,

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and refinery debutanizer column contain several worked-out examples and case studies to teach students how chemical processes can be measured and monitored using computer programming. The new edition includes two more

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chapters—Reactive Distillation Column and Vaporizing Exchangers—which will further strengthen the text. This book is designed for senior level undergraduate and first-year postgraduate level courses in

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"Chemical Process Modelling and Simulation". The book will also be useful for students of petrochemical engineering, biotechnology, and biochemical engineering. It can serve as a guide for research scientists and practising engineers as well.

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This Volume Is One Of The Two Which Offer A Comprehensive Course In Those Parts Of Theory And Practice Of Plane And Geodetic Surveying That Are Most Commonly Used By Civil Engineers. The First Volume Covers In 24 Chapters, The

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Most Common Surveying Operations. Each Topic Introduced Is Thoroughly Described, The Theory Is Rigorously Developed, And A Large Number Of Numerical Examples Are Included To Illustrate Its Application. General Statements

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Of Important Principles And Methods Are Almost Invariably Given By Practical Illustration. Apart From Illustrations Of Old And Conventional Instruments, Emphasis Has Been Placed On New Or Modern Instruments, Both For

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Ordinary As Well As Precise Work. A Good Deal Of Space Has Been Given To Instrumental Adjustments With Thorough Discussion Of Geometrical Principles In Each Case. Many New Advanced Problems Have Also Been Added

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Which Will Prove Useful For
Competitive Examinations.

An Introduction to the Science of
Rocks

Maintenance Repair Of Civil
Structures

Structural Steel Design

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Engineering Geology
Elementary Structural Analysis