

The Mechanics Of Soils And Foundations Second Edition By John Atkinson

This book is a short yet rigorous course on a new paradigm in soil mechanics, one that holds that soil deformation occurs as a simple friction-based Poisson process in which soil particles move to their final position at random shear strains. It originates from work by Casagrande's soil mechanics group at Harvard University that found that an aggregate of soil particles when sheared reaches a "steady-state" condition, a finding in line with the thermodynamics of dissipative systems. The book unpacks this new paradigm as it applies to soils. The theory explains fundamental, ubiquitous soil behaviors and relationships used in soils engineering daily thousands of times across the world, but whose material bases so far have been unknown. These include for example, why for one-dimensional consolidation, the e -log p line is linear, and why C_c/C_c is a constant for a given soil. The subtext of the book is that with this paradigm, the scientific method of trying to falsify hypotheses fully drives advances in the field, i.e., that soil mechanics now strictly qualifies as a science that, in turn, informs geotechnical engineering. The audience for the book is senior undergraduates, graduate students, academics, and researchers as well as industry professionals, particularly geotechnical engineers. It will also be useful to structural engineers, highway engineers, military engineers, persons in the construction industry, as well as planetary scientists. Because its fundamental findings hold for any mass of particles like soils, the theory applies not just to soils, but also to powders, grains etc. so long as these are under pseudo-static (no inertial effects) conditions.

"This introductory course on soil mechanics presents the key concepts of stress, stiffness, seepage, consolidation, and strength within a one-dimensional framework. - Consideration of the mechanical behaviour of soils requires us to consider density alongside stresses, thus permitting the unification of deformation and strength characteristics. Soils are described in a way which can be integrated with concurrent teaching of the properties of other engineering materials. - The book includes a model of the shearing of soil and some examples of soil-structure interaction which are capable of theoretical analysis using one-dimensional governing equations. The text contains many worked examples, and exercises are given for private study at the end of all chapters. - Some suggestions for laboratory demonstrations that could accompany such an introductory course are sprinkled through the book."--Jacket.

Soil Mechanics: Calculations, Principles, and Methods provides expert insights into the nature of soil mechanics through the use of calculation and problem-solving techniques. This informed reference begins with basic principles and calculations, illustrating physical meanings of the unit weight of soil, specific gravity, water content, void ratio, porosity, saturation, and their typical values. This is followed by calculations that illustrate the need for soil identification, classification, and ways to obtain soil particle size distribution, including sizes smaller than 0.075mm, performance, and the use of liquid and plastic limit tests. The book goes on to provide expert coverage regarding the use of soil identification and classification systems (both Unified Soil Classification System and AASHTO), and also includes applications concerning soil compaction and field applications, hydraulic conductivity and seepage, soil compressibility and field application, and shear strength and field application. Presents common methods used for

calculating soil relationships Covers soil compressibility and field application and calculations Includes soil compaction and field application calculations Provides shear strength and field application calculations Includes hydraulic conductivity and seepage calculations

Soil rheology is a branch of soil mechanics investigating the origin of, and the time-dependent changes in the stressed and strained state of soil. The author of this book however interprets rheology as being the science concerned on the one hand with how the state of stress and strain is formed and altered in a body, and on the other, with the particulars of the body's behaviour failing to fit the traditional concepts of elasticity and plasticity. There are many instances where the actual behaviour of soil differs substantially from schematized concepts and by taking into account all the peculiarities of soil deformation, precise knowledge of soil properties can be obtained and analytical prediction thus improved. Such problems are tackled in this book. This book comprises three main parts. The first part deals with basic rheological concepts and terms, the physics of soil, principles of stress-strain theory, elasticity, plasticity and viscosity - all cardinal rheological properties. The second part explains the rheological processes taking place in soils, such as creep and long-term strength, which are examined by the author with allowance for nonlinear deformation. Along with the known phenomenological theories, attention is paid to the novel kinetic (physical) theory of deformations and long-term strength. The third part outlines the generalized theory of soil deformation. It explains why soil offers different resistances to tensional and compressional deformations and derives the generalized rheological equation of state, enabling the effect of the three stress tensor invariants on the changes in shape and volume to be taken into account. From the standpoint of the theory discussed, the penultimate chapter gives examples of solutions to some problems facing soil mechanics. The final chapter reviews mathematical models representing the actual behaviour of soil under load and provides numerical solutions for engineering problems obtained with the aid of computer models. Thus the book provides a wealth of information which will be of interest both to the practising geotechnical engineer as well as to teachers and students.

Soil is fundamentally a multi-phase material – consisting of solid particles, water and air. In soil mechanics and geotechnical engineering it is widely treated as an elastic, elastoplastic or visco-elastoplastic material, and consequently regarded as a continuum body. However, this book explores an alternative approach, considering soil as a multi-phase and discrete material and applying basic Newtonian mechanics rather than analytical mechanics. It applies microscopic models to the solid phase and fluid phases, and then introduces probability theory and statistics to derive average physical quantities which correspond to the soil's macroscopic physical properties such as void ratio and water content. This book is particularly focused on the mechanical behaviour of dry, partially saturated and full saturated sandy soil, as much of the physicochemical microscopic characteristic of clayey soil is still not clear. It explores the inter-particle forces at the point of contact of soil particles and the resultant inter-particle stresses, instead of the total stress and effective stress which are studied in mainstream soil mechanics. Deformation and strength behaviour, soil-water characteristic curves, and permeability coefficients of water and air are then derived simply from grain size distribution, soil particle density, void ratio and water content. A useful reference for consultants, professional engineers,

researchers and public sector organisations involved in unsaturated soil tests. Advanced undergraduate and postgraduate students on Unsaturated Soil Mechanics courses will also find it a valuable text to study.

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

Soils can rarely be described as ideally elastic or perfectly plastic and yet simple elastic and plastic models form the basis for the most traditional geotechnical engineering calculations. With the advent of cheap powerful computers the possibility of performing analyses based on more realistic models has become widely available. One of the aims of this book is to describe the basic ingredients of a family of simple elastic-plastic models of soil behaviour and to demonstrate how such models can be used in numerical analyses. Such numerical analyses are often regarded as mysterious black boxes but a proper appreciation of their worth requires an understanding of the numerical models on which they are based. Though the models on which this book concentrates are simple, understanding of these will indicate the ways in which more sophisticated models will perform.

This revised edition is restructured with additional text and extensive illustrations, along with developments in geotechnical literature. Among the topics included are: soil aggregates, stresses in soil mass, pore water pressure due to undrained loading, permeability and seepage, consolidation, shear strength of soils, and evaluation of soil settlement.

The text presents mathematical derivations as well as numerous worked-out examples.

Ideal for undergraduates of geotechnical engineering for civil engineers, this established textbook sets out the basic theories of soil mechanics in a clear and straightforward way; combining both classical and critical state theories and giving students a good grounding in the subject which will last right through into a career as a geotechnical engineer. The subject is broken down into discrete topics which are presented in a series of short, focused chapters with clear and accessible text that develops from the purely theoretical to discussing practical applications. Soil behaviour is described by relatively simple equations with clear parameters while a number of worked examples and simple experimental demonstrations are included to illustrate the principles involved and aid reader understanding.

This text presents the mechanical aspects of reinforced soil (RS) behaviour. Beginning with simple reinforced soil models, it discusses various aspects of this material, such as properties of its constituents, and stresses and strains in

reinforced soil, up to the more complex analysis of RS structures. Its scope and level ensures it will be a valuable resource for students, academics and geotechnical engineering professionals alike.

This publication contains the papers presented at the 15th European Conference on Soil Mechanics and Geotechnical Engineering (ECSMGE), held in Athens, Greece. Considerable progress has been made in recent decades in understanding the engineering behavior of those hard soils and weak rocks that clearly fall into either the field of soil or of rock mechanics, and there have been important developments in design and construction methods to cope with them. Progress would be even more desirable, however, for those materials which fall into the 'grey' area between soils and rocks. They present particular challenges due to their diversity, the difficulties and problems arising in their identification and classification, their sampling and testing and in the establishment of suitable models to adequately describe their behavior. The publication aims to provide an updated overview of the existing worldwide knowledge of the geological features, engineering properties and behavior of such hard soils and weak rocks, with particular reference to the design and construction methods and problems associated with these materials. Part 4 was published post-conference and includes Conference Reports.

The aim of this book is to encourage students to develop an understanding of the fundamentals of soil mechanics. It builds a robust and adaptable framework of ideas to support and accommodate the more complex problems and analytical procedures that confront the practising geotechnical engineer. Soil Mechanics: Concepts and Applications covers the soil mechanics and geotechnical engineering topics typically included in university courses in civil engineering and related subjects. Physical rather than mathematical arguments are used in the core sections wherever possible. New features for the second edition include: an accompanying website containing the lecturers solutions manual; a revised chapter on soil strength and soil behaviour separating the basic and more advanced material to aid understanding; a major new section on shallow foundations subject to combined vertical, horizontal and moment loading; revisions to the material on retaining walls, foundations and filter design to account for new research findings and bring it into line with the design philosophy espoused by EC7. More than 50 worked examples including case histories Learning objectives, key points and example questions

Residual soils are found in many parts of the world and are used extensively as construction materials for roads, embankments and dams, and to support the foundations of buildings, bridges and load-bearing pavements. The characteristics and engineering properties of residual soils can differ significantly from those of the more familiar transported soils. The fact that residual soils occur often in areas with tropical and sub-tropical climates and (extensively) in semi-arid climates, adds another dimension to their engineering performance, that of unsaturation. Although there are

many books that deal with the mechanics of soils, these are based mainly on the characteristics and behaviour of saturated transported soils. The first edition of this book was the first book to be written specifically about the mechanics of residual soils. The book was prepared by a panel of authors drawn from the Technical Committee on Tropical and Residual Soils of the International Society for Soil Mechanics and Foundation Engineering. It was written as a practical professional guide for geotechnical engineers working with residual soils. The second edition has retained the valuable information contained in the first edition. The present editors and authors have extensively revised and augmented the content to bring it completely up to date, adding significantly to the sections on unsaturated soil mechanics and expanding the range and number of instructive case histories. Furthermore, sections on pedocretes, dispersive soils and karst have been added.

Introducing the first integrated coverage of sedimentary and residual soil engineering Despite its prevalence in under-developed parts of the United States and most tropical and sub-tropical countries, residual soil is often characterized as a mere extension of conventional soil mechanics in many textbooks. Now, with the rapid growth of construction in these regions, it is essential to gain a fuller understanding of residual soils and their properties—one that's based on an integrated approach to the study of residual and sedimentary soils. One text puts this understanding well within reach: *Fundamentals of Soil Mechanics for Sedimentary and Residual Soils*. The first resource to provide equal treatment of both residual and sedimentary soils and their unique engineering properties, this skill-building guide offers: A concise introduction to basic soil mechanics, stress-strain behavior, testing, and design In-depth coverage that spans the full scope of soil engineering, from bearing capacity and foundation design to the stability of slopes A focus on concepts and principles rather than methods, helping you avoid idealized versions of soil behavior and maintain a design approach that is consistent with real soils of the natural world An abundance of worked problems throughout, demonstrating in some cases that conventional design techniques applicable to sedimentary soils are not valid for residual soils Numerous end-of-chapter exercises supported by an online solutions manual Full chapter-ending references Taken together, *Fundamentals of Soil Mechanics for Sedimentary and Residual Soils* is a comprehensive, balanced soil engineering sourcebook that will prove indispensable for practitioners and students in civil engineering, geotechnical engineering, structural engineering, and geology.

Covering the undergraduate course in geotechnical engineering for civil engineers, this work sets out the basic theories of soil mechanics in a clear, simple way, combining both classical and critical state theories. By using short, focused chapters, the author ensures an accessible text while maintaining a continuous thread running through the book as theory develops into application. The treatment of soil mechanics is essentially theoretical but it is not highly

mathematical and soil behaviour is represented by relatively simple equations with clearly defined parameters. The theory is supported by worked examples and simple experimental demonstrations.

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 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. 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 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 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.

An accessible, clear, concise, and contemporary course in geotechnical engineering, this key text: strikes a balance between theory and practical applications for an introductory course in soil mechanics keeps mechanics to a minimum for the students to appreciate the background, assumptions and limitations of the theories discusses implications of the key ideas to provide students with an understanding of the context for their application gives a modern explanation of soil behaviour is presented particularly in soil settlement and soil strength offers substantial on-line resources to support teaching and learning

Discover the principles that support the practice! With its simplicity in presentation, this text makes the difficult concepts of soil mechanics and foundations much easier to understand. The author explains basic concepts and fundamental principles in the context of basic mechanics, physics, and mathematics. From Practical Situations and Essential Points to Practical Examples, this text is packed with helpful hints and examples that make the material crystal clear.

The workshop aims to provide a fundamental understanding of the liquefaction process, necessary to the enhancement of liquefaction prediction. The contributions are divided into eight sections, which include: factors affecting liquefaction susceptibility and field studies of liquefaction.

There are other books on unsaturated soil mechanics, but this book is different. Unsaturated soil mechanics is only one aspect of a continuous range of soil mechanics studies that extends from the rheology of high water content soil slurries to the mechanics of soft soils, to stiff saturated soils, to unsaturated soils, and, at the far end of the r

The Mechanics of Soils and FoundationsCRC Press

Knowledge of the behavior of soil mechanics is essential for forecasting the internal displacements and actions of any construction. This book, although theoretical at first glance, also offers a more practical scope, giving readers adequate tools to plan geotechnical projects correctly.

Although theoretical in character, this book provides a useful source of information for those dealing with practical problems relating to rock and soil mechanics - a discipline which, in the view of the authors, attempts to apply the theory of continuum to the mechanical investigation of rock and soil media. The book is in two separate parts. The first part, embodying the first three chapters, is devoted to a description of the media of interest. Chapter 1 introduces the main argument and discusses the essence of the discipline and its links with other branches of science which are concerned, on the one hand, with technical mechanics and, on the other, with the properties, origins, and formation of rock and soil strata under natural field conditions. Chapter 2 describes mechanical models of bodies useful for the purpose of the discourse and defines the concept of the limit shear resistance of soils and rocks. Chapter 3 gives the actual properties of soils and rocks determined from experiments in laboratories and in situ. Several tests used in geotechnical engineering are described and interconnections between the physical state of rocks and soils and their rheological parameters are considered. The second part of the book considers the applications of various theories which were either first developed for descriptive purposes in continuum mechanics and then adopted in soil and rock mechanics, or were specially developed for the latter discipline. Chapter 4 discusses the application of the theory of linear viscoelasticity in solving problems of stable behaviour of rocks and soils. Chapter 5 covers the use of the groundwater flow theory as applied to several problems connected with water movement in an undeformable soil or rock skeleton. Chapter 6 is a natural expansion of the arguments put forward in the previous chapter. Here the movement of water is regarded as the cause of deformation of the rock or soil skeleton and the consolidation theory developed on this basis is presented in a novel formulation. Some new engineering solutions are also reported. The seventh chapter is devoted to the limit state theory as applied to the study of the mechanical behaviour of soils and rocks. It presents some new solutions and methods which include both static and kinematic aspects of the problem, and some original effective methods for investigating media of limited cohesion. The final chapter gives a systematic account of the mechanics of highly dispersed soils, commonly called clays.

How Does Soil Behave and Why Does It Behave That Way? Soil Mechanics Fundamentals and Applications, Second Edition effectively explores the nature of soil, explains the principles of soil mechanics, and examines soil as an engineering material. This latest edition includes all the fundamental concepts of soil mechanics, as well as an introduction to

This bestselling text provides students with a clear understanding of the nature of soil and its behaviour, and offers an insight into the application of principles to engineering solutions. With its comprehensive coverage and accessible writing style, this book is ideal for core university courses in geotechnical and civil engineering, as well as being a handy guide for practitioners. This fourth edition of Soil Mechanics includes:

- Intriguing case studies from around the world, demonstrating real-life situations and solutions
- Over 100 worked examples, giving an insight into how engineers tackle specific problems
- A companion website providing

further commentary on the Geotechnical Eurocodes • An integrated series of video interviews with practising engineers • An extensive online testbank of questions for lecturers to use alongside the book • Suggestions for further reading at the end of each chapter to help with research • A range of new topics and deeper coverage of existing concepts • An improved layout and clearer presentation of figures

Instead of fixating on formulae, *Soil Mechanics: Concepts and Applications*, Third Edition focuses on the fundamentals. This book describes the mechanical behaviour of soils as it relates to the practice of geotechnical engineering. It covers both principles and design, avoids complex mathematics whenever possible, and uses simple methods and ideas to build a framework to support and accommodate more complex problems and analysis. The third edition includes new material on site investigation, stress-dilatancy, cyclic loading, non-linear soil behaviour, unsaturated soils, pile stabilization of slopes, soil/wall stiffness and shallow foundations. Other key features of the Third Edition: • Makes extensive reference to real case studies to illustrate the concepts described • Focuses on modern soil mechanics principles, informed by relevant research • Presents more than 60 worked examples • Provides learning objectives, key points, and self-assessment and learning questions for each chapter • Includes an accompanying solutions manual for lecturers This book serves as a resource for undergraduates in civil engineering and as a reference for practising geotechnical engineers.

A logical, integrated and comprehensive coverage of both introductory and advanced topics in soil mechanics in an easy-to-understand style. Emphasis is placed on presenting fundamental behaviour before more advanced topics are introduced. The use of S.I. units throughout, and frequent references to current international codes of practice and refereed research papers, make the contents universally applicable. Written with the university student in mind and packed full of pedagogical features, this book provides an integrated and comprehensive coverage of both introductory and advanced topics in soil mechanics. It includes: worked examples to elucidate the technical content and facilitate self-learning a convenient structure (the book is divided into sections), enabling it to be used throughout second, third and fourth year undergraduate courses universally applicable contents through the use of SI units throughout, frequent references to current international codes of practice and refereed research papers new and advanced topics that extend beyond those in standard undergraduate courses. The perfect textbook for a range of courses on soils mechanics and also a very valuable resource for practising professional engineers.

Analytical and comprehensive, this state-of-the-art book, examines the mechanics and engineering of unsaturated soils, as well as explaining the laboratory and field testing and research that are the logical basis of this modern approach to safe construction in these hazardous geomaterials; putting them into a logical framework for civil engineering and design. The book: illustrates the importance of state-dependent soil-water characteristic curves highlights modern soil testing of unsaturated soil behaviour, including accurate measurement of total volume changes and the measurement of anisotropic soil stiffness at very small strains introduces an advanced state-dependent elasto-plastic constitutive model for both saturated and unsaturated soil demonstrates the power of numerical analysis which is at the heart of modern soil mechanics studies and simulates the behaviour of loose fills

from unsaturated to saturated states; explains the difference between strain-softening and static liquefaction, and describes real applications in unsaturated soil slope engineering includes purpose-designed field trials to capture the effects of two independent stress variables, and reports comprehensive measurements of soil suction, water contents, stress changes and ground deformations in both bare and grassed slopes introduces a new conjunctive surface and subsurface transient flow model for realistically analysing rainfall infiltration in unsaturated soil slopes, and illustrates the importance of the flow model in slope engineering. Including constitutive and numerical modelling, this volume will interest students and professionals studying or working in the areas of geotechnical engineering and the built environment.

Fundamentals of Continuum Mechanics of Soils provides a long-needed general scheme for the study of the important yet problematic material of soil. It closes the gap between two disciplines, soil mechanics and continuum mechanics, showing that the familiar concepts of soil mechanics evolve directly from continuum mechanics. It confirms concepts such as pore pressures, cohesion and dependence of the shear stress on consolidation, and rejects the view that continuum mechanics cannot be applied to a material such as soil. The general concepts of continuum mechanics, field equations and constitutive equations are discussed. It is shown how the theory of mixtures evolves from these equations and how, along with energetics and irreversible thermodynamics, it can be applied to soils. The discussion also sheds light on some aspects of mechanics of materials, especially compressible materials. Examples are the introduction of the Hencky measure of strain, the requirement of dual constitutive equations, and the dependence of the spent internal energy on the stored internal energy. Researchers in engineering mechanics and material sciences may find that the results of experiments on soils can be generalized and extended to other materials. The book is a reference text for students familiar with the fundamentals of mechanics, for scholars of soil engineering, and for soil scientists. It is also suitable as an advanced undergraduate course in soil mechanics.

This seventh edition of Soil Mechanics, widely praised for its clarity, depth of explanation and extensive coverage, presents the fundamental principles of soil mechanics and illustrates how they are applied in practical situations. Worked examples throughout the book reinforce the explanations and a range of problems for the reader to solve provide further learning opportunities.

For courses in Soil Mechanics and Foundations. Essentials of Soil Mechanics and Foundations: Basic Geotechnics, Seventh Edition, provides a clear, detailed presentation of soil mechanics: the background and basics, the engineering properties and behavior of soil deposits, and the application of soil mechanics theories. Appropriate for soil mechanics courses in engineering, architectural and construction-related programs, this new edition features a separate chapter on earthquakes, a more logical organization, and new material relating to pile foundations design and construction and soil

permeability. It's rich applications, well-illustrated examples, end-of-chapter problems and detailed explanations make it an excellent reference for students, practicing engineers, architects, geologists, environmental specialists and more. This textbook offers a superb introduction to theoretical and practical soil mechanics. Special attention is given to the risks of failure in civil engineering, and themes covered include stresses in soils, groundwater flow, consolidation, testing of soils, and stability of slopes. Readers will learn the major principles and methods of soil mechanics, and the most important methods of determining soil parameters both in the laboratory and in situ. The basic principles of applied mechanics, that are frequently used, are offered in the appendices. The author's considerable experience of teaching soil mechanics is evident in the many features of the book: it is packed with supportive color illustrations, helpful examples and references. Exercises with answers enable students to self-test their understanding and encourage them to explore further through additional online material. Numerous simple computer programs are provided online as Electronic Supplementary Material. As a soil mechanics textbook, this volume is ideally suited to supporting undergraduate civil engineering students. "I am really delighted that your book is now published. When I "discovered" your course a few years ago, I was elated to have finally found a book that immediately resonated with me. Your approach to teaching soil mechanics is precise, rigorous, clear, concise, or in other words "crisp." My colleagues who share the teaching of Soil Mechanics 1 and 2 (each course is taught every semester) at the UMN have also adopted your book." Emmanuel Detournay Professor at Dept. of Civil, Environmental, and Geo-Engineering, University of Minnesota, USA

The 9th edition maintains the content on all soilmechanics subject areas - groundwater flow, soil physicalproperties, stresses, shear strength, consolidation and settlement,slope stability, retaining walls, shallow and deep foundations,highways, site investigation - but has been expanded to include adetailed explanation of how to use Eurocode 7 for geotechnicaldesign. The key change in this new edition is the expansion of thecontent covering Geotechnical Design to Eurocode 7. Redundantmaterial relating to the now defunct British Standards - no longerreferred to in degree teaching - has been removed. Building on the success of the earlier editions, this9th edition of Smith's Elements of SoilMechanics brings additional material on geotechnical design toEurocode 7 in an understandable format. Many worked examples areincluded to illustrate the processes for performing design to thisEuropean standard. Significant updates throughout the book have been made toreflect other developments in procedures and practices in theconstruction and site investigation industries. More workedexamples and many new figures have been provided throughout. Theillustrations have been improved and the new design and layout ofthe pages give a lift. unique content to illustrate the use of Eurocode 7 withessential guidance on how to use the now fully published code clear content and well-

organised structure takes complicated theories and processes and presents them in easy-to-understand formats book's website offers examples and downloads to further understanding of the use of Eurocode 7

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