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Here is a comprehensive new textbook on one of the key subjects in engineering science: structural stability. Describing the principles and applications of stability analysis, the text is intended for first-year graduate students. It will also serve as a valuable reference for engineers and scientists seeking information on basic

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ideas, approaches, and concepts. In addition to traditional topics in elastic stability, the work gives considerable attention to nonelastic stability. It also examines modern stability problems of fracture and damage, the thermodynamic principles of stability in irreversible systems, viscoelastic and viscoplastic buckling, and many other key areas where information has been hard to locate or scattered among different sources. The emphasis is on providing an understanding of basic principles rather than detailed solutions of specialized problems. The treatment of each subject proceeds from simple examples to general concepts and rigorous formulations. All the basic results are derived, using mathematics as simple as possible without sacrificing efficiency. Much recent research is presented and the volume is as up-to-date as it is comprehensive. Many examples are given to illustrate key concepts, and 700 exercise problems will help students master this important subject.

The current trend of building more streamlined structures has made stability analysis a subject of extreme importance. It is mostly a safety issue because Stability loss could result in an unimaginable catastrophe. Written by two authors with a combined 80 years of professional and academic experience, the objective of *Stability of Structures: Principles and Applications* is to provide engineers and

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architects with a firm grasp of the fundamentals and principles that are essential to performing effective stability analysts. Concise and readable, this guide presents stability analysis within the context of elementary nonlinear flexural analysis, providing a strong foundation for incorporating theory into everyday practice. The first chapter introduces the buckling of columns. It begins with the linear elastic theory and proceeds to include the effects of large deformations and inelastic behavior. In Chapter 2 various approximate methods are illustrated along with the fundamentals of energy methods. The chapter concludes by introducing several special topics, some advanced, that are useful in understanding the physical resistance mechanisms and consistent and rigorous mathematical analysis. Chapters 3 and 4 cover buckling of beam-columns. Chapter 5 presents torsion in structures in some detail, which is one of the least well understood subjects in the entire spectrum of structural mechanics. Strictly speaking, torsion itself does not belong to a topic in structural stability, but needs to be covered to some extent for a better understanding of buckling accompanied with torsional behavior. Chapters 6 and 7 consider stability of framed structures in conjunction with torsional behavior of structures. Chapters 8 to 10 consider buckling of plate elements, cylindrical shells, and general shells. Although the book

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is primarily devoted to analysis, rudimentary design aspects are discussed. Balanced presentation for both theory and practice Well-blended contents covering elementary to advanced topics Detailed presentation of the development

Behaviour of Steel Structures in Seismic Areas is a comprehensive overview of recent developments in the field of seismic resistant steel structures. It comprises a collection of papers presented at the seventh International Specialty Conference STESSA 2012 (Santiago, Chile, 9-11 January 2012), and includes the state-of-the-art in both theore

Structural Stability: Theory and Implementation is a practical work that provides engineers and students in structural engineering or structured mechanics with the background needed to make the transition from fundamental theory to practical design rules and computer implementation. Beginning with the basic principles of structural stability and basic governing equations, Structural Stability is a concise and comprehensive introduction that applies the principles and theory of structural stability (which are the basis for structural steel design) to the solution of practical building frame design problems. Special features include: modern theories of structural stability of members and frames, and a discussion of how these

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theories may be utilized to provide design rules and calculation techniques for design important governing equations and the classical solutions used in design processes examples of analytical and numerical methods selected as the most useful and practically applicable methods available detailed information on the stability design rules of the 1986 AISC/LRFD Specifications for the design, fabrication, and erection of structural steel for buildings dual units (SI and English) with most of the material presented in a non-dimensional format fully worked examples, end-of-chapter problems, answers to selected problems, and clear illustrations and tables An outstandingly practical resource, Structural Stability offers the reader an understanding of the fundamental principles and theory of structural stability not only in an idealized, perfectly elastic system, but also in an inelastic, imperfect system representative of the actual structural systems encountered in engineering practice.

This conference is the first in a series of conferences dedicated to Fracture Mechanics of Concrete Structures. Due to the recent explosion of interest in research on fracture in concrete, the conference has brought together the world's leading researchers in fracture of concrete and this book contains the proceedings.

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An understandable introduction to the theory of structural stability, useful for a wide variety of engineering disciplines, including mechanical, civil and aerospace.

This work on structural stability has been written primarily as a textbook to provide a clear understanding of theoretical stability behaviour. It will give readers a basic understanding of the design specifications developed by, for example, AISC, and implemented in building codes by IBC.

International Symposium on Engineering under Uncertainty: Safety Assessment and Management (ISEUSAM - 2012) is organized by Bengal Engineering and Science University, India during the first week of January 2012 at Kolkata. The primary aim of ISEUSAM 2012 is to provide a platform to facilitate the discussion for a better understanding and management of uncertainty and risk, encompassing various aspects of safety and reliability of engineering systems. The conference received an overwhelming response from national as well as international scholars, experts and delegates from different parts of the world. Papers received from authors of several countries including Australia, Canada, China, Germany, Italy, UAE, UK and USA, besides India. More than two hundred authors have shown their interest in the symposium. The Proceedings presents ninety two high quality papers which address

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issues of uncertainty encompassing various fields of engineering, i.e. uncertainty analysis and modelling, structural reliability, geotechnical engineering, vibration control, earthquake engineering, environmental engineering, stochastic dynamics, transportation system, system identification and damage assessment, and infrastructure engineering.

Fracture and Size Effect in Concrete and Other Quasibrittle Materials is the first in-depth text on the application of fracture mechanics to the analysis of failure in concrete structures. The book synthesizes a vast number of recent research results in the literature to provide a comprehensive treatment of the topic that does not give merely the facts - it provides true understanding. The many recent results on quasibrittle fracture and size effect, which were scattered throughout many periodicals, are compiled here in a single volume. This book presents a well-rounded discussion of the theory of size effect and scaling of failure loads in structures. The size effect, which is the most important practical manifestation of fracture behavior, has become a hot topic. It has gained prominence in current research on concrete and quasibrittle materials. The treatment of every subject in Fracture and Size Effect in Concrete and Other Quasibrittle Materials proceeds from simple to complex, from

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specialized to general, and is as concise as possible using the simplest level of mathematics necessary to treat the subject clearly and accurately. Whether you are an engineering student or a practicing engineer, this book provides you with a clear presentation, including full derivations and examples, from which you can gain real understanding of fracture and size effect in concrete and other quasibrittle materials.

The definitive guide to stability design criteria, fully updated and incorporating current research. Representing nearly fifty years of cooperation between Wiley and the Structural Stability Research Council, the Guide to Stability Design Criteria for Metal Structures is often described as an invaluable reference for practicing structural engineers and researchers. For generations of engineers and architects, the Guide has served as the definitive work on designing steel and aluminum structures for stability. Under the editorship of Ronald Ziemian and written by SSRC task group members who are leading experts in structural stability theory and research, this Sixth Edition brings this foundational work in line with current practice and research. The Sixth Edition incorporates a decade of progress in the field since the previous edition, with new features including: Updated chapters on beams, beam-columns, bracing, plates, box girders, and curved girders. Significantly

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revised chapters on columns, plates, composite columns and structural systems, frame stability, and arches Fully rewritten chapters on thin-walled (cold-formed) metal structural members, stability under seismic loading, and stability analysis by finite element methods State-of-the-art coverage of many topics such as shear walls, concrete filled tubes, direct strength member design method, behavior of arches, direct analysis method, structural integrity and disproportionate collapse resistance, and inelastic seismic performance and design recommendations for various moment-resistant and braced steel frames Complete with over 350 illustrations, plus references and technical memoranda, the Guide to Stability Design Criteria for Metal Structures, Sixth Edition offers detailed guidance and background on design specifications, codes, and standards worldwide.

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