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Zdenek P. Bazant

Fracture Mechanics Lecture by Professor Zdenek P.
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A crucial element of structural and continuum mechanics, stability theory has limitless applications in civil, mechanical, aerospace, naval and nuclear engineering. This text of unparalleled scope presents a comprehensive exposition of the principles and

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applications of stability analysis. It has been proven as a text for introductory courses and various advanced courses for graduate students. It is also prized as an exhaustive reference for engineers and researchers. The authors' focus on understanding of the basic principles rather than excessive detailed solutions, and their treatment of each subject proceed from simple examples to general concepts and rigorous formulations. All the results are derived using as simple mathematics as possible. Numerous examples are given and 700 exercise problems help in attaining a firm grasp of this central aspect of solid mechanics. The book is an unabridged republication of the 1991 edition by Oxford University Press and the 2003 edition by

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Dover, updated with 18 pages of end notes.

The study of buckling loads, which often hinges on numerical methods, is key in designing structural elements. But the need for analytical solutions in addition to numerical methods is what drove the creation of Exact Solutions for Buckling of Structural Members. It allows readers to assess the reliability and accuracy of solutions obtained by nume

Structural Stability in Engineering Practice elucidates the various problems associated with attaining stability,

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and provides the results for practical use by the design engineer. By presenting a simple and visual description of the physical phenomena, the authors show how to determine the critical loads of various structures, such as frames, arches, building structures, trusses and sandwiches. Special emphasis is given to the post-critical behaviour - essential for assessing the safety of structures - and furthermore to the summation theories that make the solution of complicated stability problems relatively simple.

The engineering community generally accepts that there exists only a small set of closed-form solutions for simple cases of bars, beams, columns, and plates.

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Despite the advances in powerful computing and advanced numerical techniques, closed-form solutions remain important for engineering; these include uses for preliminary design, for evaluation

Hydraulic gates are utilized in multiple capacities in modern society. As such, the failure of these gates can have disastrous consequences, and it is imperative to develop new methods to avoid these occurrences. Dynamic Stability of Hydraulic Gates and Engineering for Flood Prevention is a critical reference source containing scholarly research on engineering techniques and mechanisms to decrease the failure rate of hydraulic gates. Including a range of perspectives on

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topics such as fluid dynamics, vibration mechanisms, and flow stability, this book is ideally designed for researchers, academics, engineers, graduate students, and practitioners interested in the study of hydraulic gate structure.

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 architects with

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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

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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 is primarily devoted to analysis, rudimentary design aspects are

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discussed. Balanced presentation for both theory and practice Well-blended contents covering elementary to advanced topics Detailed presentation of the development

Continuum Mechanics of Solids is an introductory text for graduate students in the many branches of engineering, covering the basics of kinematics, equilibrium, and material response. As an introductory book, most of the emphasis is upon the kinematically linear theories of elasticity, plasticity, and viscoelasticity, with two additional chapters devoted to topics in finite elasticity. Further chapters cover topics in fracture and fatigue and coupled field problems, such

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as thermoelasticity, chemoelasticity, poroelasticity, and piezoelectricity. There is ample material for a two semester course, or by selecting only topics of interest for a one-semester offering. The text includes numerous examples to aid the student. A companion text with over 180 fully worked problems is also available.

Internationally, much attention is given to causes, prevention, and rehabilitation of cracking in concrete, flexible, and composite pavements. The Sixth RILEM International Conference on Cracking in Pavements (Chicago, June 16-18, 2008) provided a forum for discussion of recent developments and

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research results. This book is a collection of papers fr

Five main topics of computational plasticity are treated by experts in the field with latest research results, such as consistent linearizations and finite element techniques, the numerical analysis for stable volume-preserving time-integration at the plastic flow rule, the analysis and finite-element computation of shearband localizations and also of shake down load-factors for arbitrary non-linear kinematic hardening materials. The aim was primarily an integrated representation of the mathematical models, the analysis of numerical methods and the newest algorithms for the consistent and stable computation of large dimensional systems.

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The significance should be seen in the collection of textbook-like treatments of important new results from wellknown scientists.

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