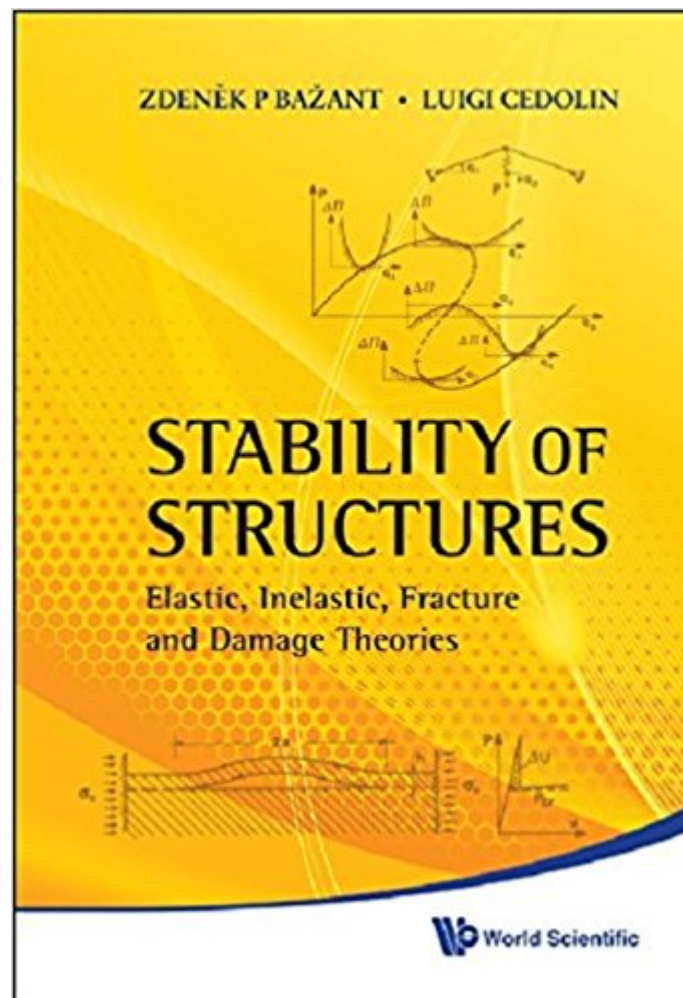




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Stability Of Structures: Elastic, Inelastic, Fracture And Damage Theories



Synopsis

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 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 Dover, updated with 18 pages of end notes.

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This text book offers extensive collections of analytical analyses of stability of structures. If you want to find a great book about analytical methods (rather than numerical techniques). This book is the one. It's hard to imagine a textbook that can beat this one in next 10 years. Btw this Dover version is an affordable version from its 1991 version from Oxford university press.

This book is a great reference for any structural engineer's library, although it is definitely more of a

graduate/PhD level. For instance, as a working structural engineer for 10+ years, I really haven't needed such a reference. But now that I am in graduate school, it is a great book to have. Maybe after learning the content in it, I will use it when working, but that remains to be seen.

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