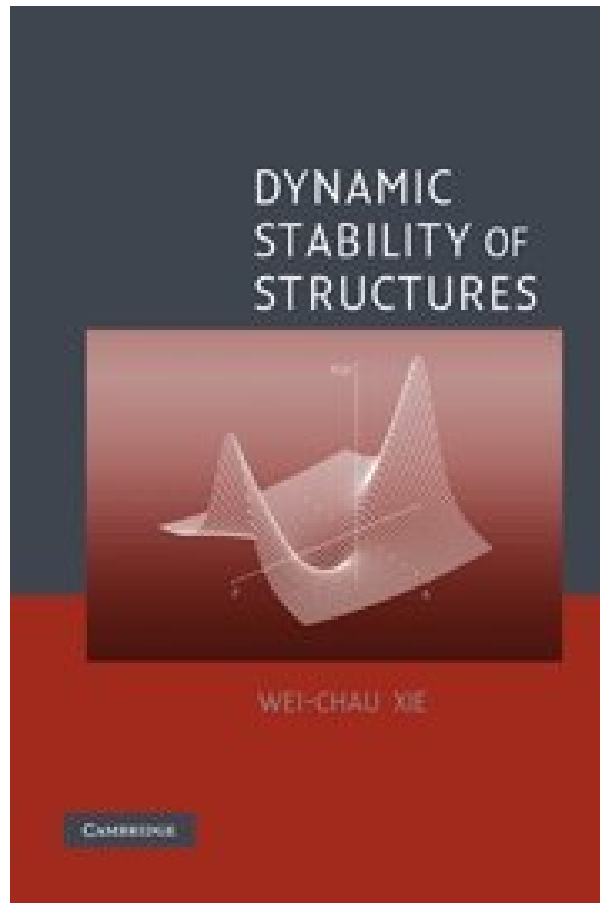


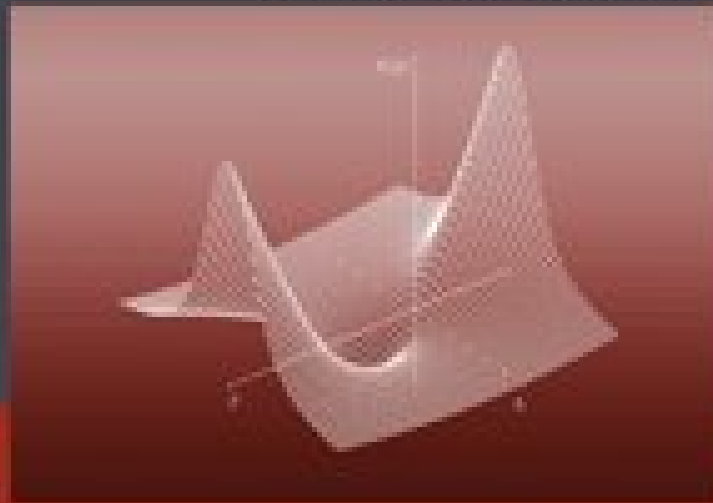
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"In addition to being very clearly written throughout, the book can boast an impeccable overall visual presentation, with numerous diagrams and charts illustrating graphically the mathematical treatments. It also contains an extensive list of references for those needing more background material or wishing to pursue a particular area further."

- Philippe Duffour, University of College London

"This monograph is a competent introduction to several models of structural dynamics and their asymptotic treatment. It guides the reader carefully through a list of models with periodic and random loads, and shows through step-by-step computations how classical and modern concepts can be combined to deliver stability results for structures under dynamic loading. The book will be a great companion for those who want to understand how dynamic models of structures are derived and how asymptotic stability results can be obtained."

- Wolfgang Kliemann, SIAM Review

"The book is an excellent textbook for an advanced level graduate course, and calls for slow and meditative reading. In the end, however, the reader will have the feeling of having been walked, in a methodical and scientific way, through a fascinating area of dynamics."

- Ricardo Foschi, The University of British Columbia

## **About the Author**

Wei-Chau Xie is a Professor in the Department of Civil Engineering at the University of Waterloo. He is the author of numerous articles on dynamic stability of structures, nonlinear dynamics, and stochastic mechanics. He is the recipient of the Teaching Excellence Award in recognition of his exemplary record as a teacher.

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