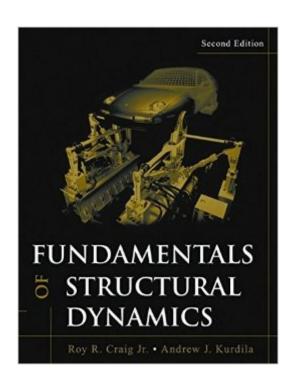
The book was found

Fundamentals Of Structural Dynamics





Synopsis

From theory and fundamentals to the latest advances in computational and experimental modal analysis, this is the definitive, updated reference on structural dynamics. This edition updates Professor Craig's classic introduction to structural dynamics, which has been an invaluable resource for practicing engineers and a textbook for undergraduate and graduate courses in vibrations and/or structural dynamics. Along with comprehensive coverage of structural dynamics fundamentals, finite-element-based computational methods, and dynamic testing methods, this Second Edition includes new and expanded coverage of computational methods, as well as introductions to more advanced topics, including experimental modal analysis and "active structures." With a systematic approach, it presents solution techniques that apply to various engineering disciplines. It discusses single degree-of-freedom (SDOF) systems, multiple degrees-of-freedom (MDOF) systems, and continuous systems in depth; and includes numeric evaluation of modes and frequency of MDOF systems; direct integration methods for dynamic response of SDOF systems and MDOF systems; and component mode synthesis. Numerous illustrative examples help engineers apply the techniques and methods to challenges they face in the real world. MATLAB(r) is extensively used throughout the book, and many of the .m-files are made available on the book's Web site. Fundamentals of Structural Dynamics, Second Edition is an indispensable reference and "refresher course" for engineering professionals; and a textbook for seniors or graduate students in mechanical engineering, civil engineering, engineering mechanics, or aerospace engineering.

Book Information

Hardcover: 744 pages

Publisher: Wiley; 2 edition (July 11, 2006)

Language: English

ISBN-10: 0471430447

ISBN-13: 978-0471430445

Product Dimensions: 7.8 x 1.7 x 9.5 inches

Shipping Weight: 3.1 pounds (View shipping rates and policies)

Average Customer Review: 4.2 out of 5 stars Â See all reviews (10 customer reviews)

Best Sellers Rank: #178,440 in Books (See Top 100 in Books) #3 in Books > Engineering &

Transportation > Engineering > Civil & Environmental > Structural Dynamics #110 in Books >

Textbooks > Engineering > Civil Engineering #588 in Books > Engineering & Transportation >

Engineering > Mechanical

Customer Reviews

This book is easy to read and provides a lot of useful examples. The concepts that are harder to grasp have in depth examples that clarify the process. The problems provided at the end of each chapter are a good mixture of applicable and conceptual. This is a great book for understanding vibrations as a whole. In terms of the condition of the book, it was exactly as described. I couldn't be happier.

I am having a hard time getting into this book. I really like Chopra and I like how Clough and Penzien added random processes towards the end of the book. It provided me some room to grow.

The content of the book is excellent, but the print quality is poor. I'm disappointed with the quality of the printing of the book, some pages uncut and I are some pictures and graphics are blurry. The book looks like a photocopy.

The product shipped exactly as described. The book was new and packaged very well. Not a single crumpled page, the spine was stiff as if it had never been opened, and it was almost \$50 cheaper than my university bookstore. As I have not yet finished the course I purchased the textbook for I won't comment on the content of the book, except that as a professional in the work force for structural dynamics test and evaluation I am excited and glad this book includes a chapter on Experimental Modal Analysis that should prove a valuable resource.

Well written textbook. This textbook prepares the foundation and the tools to apply the FE method to vibration application. Good book.

Download to continue reading...

Fundamentals of Structural Dynamics Fundamentals of Structural Dynamics:2nd (Second) edition Seismic Design Using Structural Dynamics (2006 IBC, 2009 IBC, ASCE/SEI 7-05) Matrix Analysis of Structural Dynamics: Applications and Earthquake Engineering (Civil and Environmental Engineering) Structural Dynamics: Theory and Applications Advanced Structural Dynamics Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series, Vol. 15) Structural Dynamics - Theory & Computation, 2E Structural Dynamics: Theory and Computation Structural Dynamics by Finite Elements (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) Basic Structural Dynamics Structural Dynamics: An Introduction to

Computer Methods Structural Dynamics and Vibration in Practice: An Engineering Handbook Introduction to Structural Dynamics Stress, Strain, and Structural Dynamics: An Interactive Handbook of Formulas, Solutions, and MATLAB Toolboxes Mechanical Vibrations: Theory and Application to Structural Dynamics Introduction to Structural Dynamics and Aeroelasticity (Cambridge Aerospace Series) Structural Stability of Steel: Concepts and Applications for Structural Engineers Structural Analysis and Synthesis: A Laboratory Course in Structural Geology Structural Analysis and Synthesis: A Laboratory Course in Structural Geology 3rd (third) edition by Rowland, Stehen M., Duebendorfer, Ernest M., Schiefelbein, I published by Wiley-Blackwell (2007) [Spiral-bound]

Dmca