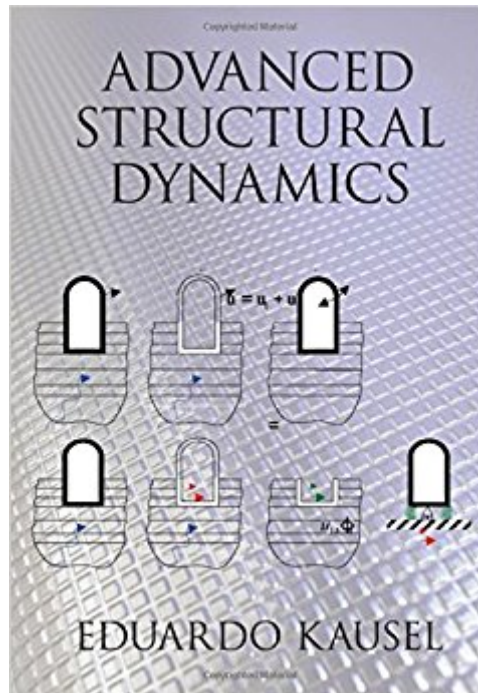




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# Advanced Structural Dynamics



## Synopsis

Developed from three decades' worth of lecture notes which the author used to teach at the Massachusetts Institute of Technology, this unique textbook presents a comprehensive treatment of structural dynamics and mechanical vibration. The chapters in this book are self-contained so that instructors can choose to be selective about which topics they teach. Written with an application-based focus, the text covers topics such as earthquake engineering, soil dynamics, and relevant numerical methods techniques that use MATLAB. Advanced topics such as the Hilbert transform, gyroscope forces, and spatially periodic structures are also treated extensively. Concise enough for an introductory course yet rigorous enough for an advanced or graduate-level course, this textbook is also a useful reference manual - even after the final exam - for professional and practicing engineers.

## Book Information

Hardcover: 700 pages

Publisher: Cambridge University Press; 1 edition (August 7, 2017)

Language: English

ISBN-10: 1107171512

ISBN-13: 978-1107171510

Product Dimensions: 7 x 1.6 x 10 inches

Shipping Weight: 6.4 pounds (View shipping rates and policies)

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## Customer Reviews

Developed from three decades' worth of lecture notes from Massachusetts Institute of Technology lectures, this concise textbook presents an exhaustive treatment of structural dynamics and mechanical vibration. Appropriate for introductory courses yet rigorous enough for advanced courses, this book is for graduate students, doctoral candidates, practicing professionals, and instructors.

Professor Eduardo Kausel is a specialist in structural dynamics in the Department of Civil and

Environmental Engineering at the Massachusetts Institute of Technology (MIT). He is especially well known for two papers on the collapse of the Twin Towers on September 11, 2001. The first of this pair, published on MIT's website only a few days after the terrorist act, attracted more readers around the world than all other works and publications on the subject combined. Kausel is the author of *Fundamental Solutions in Elastodynamics: A Compendium* (Cambridge, 2011).

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