

Computational Techniques of Rotor Dynamics with the Finite Element Method



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Arne Vollan
Louis Komzsik

Computational Techniques Of Rotor Dynamics With The Finite Element Method

**Institution of Mechanical Engineers
(Great Britain). Engineering Sciences
Division**

Computational Techniques Of Rotor Dynamics With The Finite Element Method:

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Komzsi,2025-03-31 Rotor dynamics is both a classical and a modern branch of engineering science The rotation of rigid bodies mainly those with regular shapes such as cylinders and shafts has been well understood for more than a century However analyzing the rotational behavior of flexible bodies especially those with irregular shapes like propellers and blades requires more modern tools such as finite elements hence the title and focus of this book In the dozen years since the original publication this book was used in teaching engineering students at universities and in consulting in the industry During those activities several topics were deemed to require further explanations Students requested a deeper finite element technology foundation in certain places to make the book self contained in that regard also Some desired more details about the computational and numerical solutions These requests are answered in new sections of this edition Practicing engineers asked for a detailed industrial application case study and such was added in a new chapter dealing with wind turbines This book is composed of two parts the first focusing on the theoretical foundation of rotor dynamics and the second focusing on the engineering analysis of industrial structures The theoretical foundation is built on physics calculus and finite element technology chapters Computational and numerical techniques provide free vibration and response analyses solutions The industrial engineering analysis part contains chapters analyzing jet engine turbine wheels aircraft propellers and wind turbine blades This book concludes with a new industrial case study based on a recent modern wind turbine development project

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concludes with a new industrial case study based on a recent modern wind turbine development project **The Shock and Vibration Digest**, 1993 Vibration Analysis of Rotors Chong-Won Lee, 2012-12-06 This text is intended for use as an advanced course in either rotordynamics or vibration at the graduate level This text has mostly grown out of the research work in my laboratory and the lectures given to graduate students in the Mechanical Engineering Department KAIST The text contains a variety of topics not normally found in rotordynamics or vibration textbooks The text emphasizes the analytical aspects and is thus quite different from conventional rotordynamics texts potential readers are expected to have a firm background in elementary rotordynamics and vibration In most previously published rotordynamics texts the behavior of simple rotors has been of a primary concern while more realistic multi degree of freedom or continuous systems are seldom treated in a rigorous way mostly due to the difficulty of a mathematical treatment of such complicated systems When one wanted to gain a deep insight into dynamic phenomena of complicated rotor systems one has in the past either had to rely on computational techniques such as the transfer matrix and finite element methods or cautiously to extend ideas learned from simple rotors whose analytical solutions are readily available The former methods are limited in the interpretation of results since the calculations relate only to the simulated case not to more general system behavior Ideas learned from simple rotors can fortunately often be extended to many practical rotor systems but there is of course no guarantee of their validity

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