

Computational Techniques of Rotor Dynamics with the Finite Element Method

— Second Edition



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Arne Vollan and
Louis Komzsik

Computational Techniques Of Rotor Dynamics With The Finite Element Method

Ronald L. Eshleman, Neville F. Rieger



Computational Techniques Of Rotor Dynamics With The Finite Element Method:

Computational Techniques of Rotor Dynamics with the Finite Element Method Arne Vollan,Louis

Komzsik,2012-03-13 For more than a century we have had a firm grasp on rotor dynamics involving rigid bodies with regular shapes such as cylinders and shafts However to achieve an equally solid understanding of the rotational behavior of flexible bodies especially those with irregular shapes such as propeller and turbine blades we require more modern tools and methods Computational Techniques of Rotor Dynamics with the Finite Element Method explores the application of practical finite element method FEM based computational techniques and state of the art engineering software These are used to simulate behavior of rotational structures that enable the function of various types of machinery from generators and wind turbines to airplane engines and propellers The book s first section focuses on the theoretical foundation of rotor dynamics and the second concentrates on the engineering analysis of rotating structures The authors explain techniques used in the modeling and computation of the forces involved in the rotational phenomenon They then demonstrate how to interpret and apply the results to improve fidelity and performance Coverage includes Use of FEM to achieve the most accurate computational simulation of all gyroscopic forces occurring in rotational structures Details of highly efficient and accurate computational and numerical techniques for dynamic simulations Interpretation of computational results which is instrumental to developing stable rotating machinery Practical application examples of rotational structures dynamic response to external and internal excitations An FEM case study that illustrates the computational complexities associated with modeling and computation of forces of rotor dynamics Assessment of propellers and turbines that are critical to the transportation and energy industries Useful to practicing engineers and graduate level students alike this self contained volume also serves as an invaluable reference for researchers and instructors in this field CRC Press Authors Speak Louis Komzsik introduces you to two books that share a common mathematical foundation the finite element analysis technique Watch the video [Computational Techniques of Rotor Dynamics with the Finite Element](#) Arne Vollan,Louis Komzsik,2025 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 the book In the dozen years since the original publication the 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 The book is composed of

two parts the first focusing on the theoretical foundation of rotor dynamics and the second 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 The book concludes with a new industrial case study based on a recent modern wind turbine development project The Shock and Vibration Digest ,1993 *Journal of Engineering for Gas Turbines and Power* , **ASME Technical Papers** ,1995

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