

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

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Computational Techniques Of Rotor Dynamics With The Finite Element Method:

Computational Techniques of Rotor Dynamics with the Finite Element Method Arne Vollan, Louis Komzsik, 2012-03-20 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 m

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

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