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Dynamic behavior of a simple rotor with a cross-sectional crack, IMechE Conference on Vibrations in Rotating Machinery, Cambridge, UK, 1976, Paper C178/76. Gasch , R. ( 1993 ). A survey of the dynamic behavior of a simple rotating shaft with a transverse

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Crack, Journal of Sound and Vibration  
160, 313–332.

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Dynamics of Rotating Machines. M.I. Friswell, J.E.T. Penny, S.D. Garvey and A.W. Lees. Cambridge University Press, 2010, 512 pp., ISBN 9780521850162. Errata. Although the authors were careful in proof reading the book, inevitably some errors were missed.

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SOLUTION MANUAL. Version 1. July  
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Apr 16, 2020 - By Frédéric Dard ##

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Michael I. Friswell March 2010.

Introduction. The purposes of this chapter are primarily to alert readers to the limitations of the analysis provided in previous chapters, to

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highlight the more complex behavior of certain types of rotor, and to indicate where detailed descriptions of the analysis of these systems can be found.

More Complex Rotordynamic Models  
(Chapter 10) - Dynamics ...

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Obviously, rotating machines are not designed specifically with these properties; the reality is that rotating machines are designed for a purpose. Shaft dimensions and inertias and the type and dimensions of the bearings are chosen appropriately for the machine function.

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the dynamics of rotating machines. Will the vibration be large? What influences machine stability? How can the vibration be reduced? Which sorts of rotor vibration are the worst? The book develops this understanding initially using extremely simple models for each phenomenon, in

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which (at most) four equations capture the behavior. More detailed models are then developed based on finite element analysis, to enable the accurate simulation of the relevant phenomena for real machines. Analysis software (in MATLAB) is associated with this book, and novices

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to rotordynamics can expect to make good predictions of critical speeds and rotating mode shapes within days. The book is structured more as a learning guide than as a reference tome and provides readers with more than 100 worked examples and more than 100 problems and solutions.

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This book opens with an explanation of the vibrations of a single degree-of-freedom (dof) system for all beginners. Subsequently, vibration analysis of multi-dof systems is explained by modal analysis. Mode synthesis modeling is then introduced

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for system reduction, which aids understanding in a simplified manner of how complicated rotors behave.

Rotor balancing techniques are offered for rigid and flexible rotors through several examples.

Consideration of gyroscopic influences on the rotordynamics is

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then provided and vibration evaluation of a rotor-bearing system is emphasized in terms of forward and backward whirl rotor motions through eigenvalue (natural frequency and damping ratio) analysis. In addition to these rotordynamics concerning rotating shaft vibration measured in a

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Experimental Techniques, Rotating  
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