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What does ROTOR
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ROTOR DYNAMICS
meaning \u0026
explanation

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Unbalance

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practical finite
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techniques and
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structures that
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generators and
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wind turbines to
airplane engines
and propellers.

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explores the application of practical finite element method (FEM)-based computational techniques and state-of-the-art

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are used to

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Komzsik, Louis,
Vollan, Arne.

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"This book covers using practical computational techniques for simulating behavior of rotational structures and then using the results to improve fidelity and performance. Applications of

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rotor dynamics are associated with important energy industry machinery, such as generators and wind turbines, as well as airplane engines and propellers.

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more than a
century, we have

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had a firm grasp
on rotor
dynamics
involving rigid
bodies with
regular shapes,
such as
cylinders and
shafts.

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Modal reduction
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are based on
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Rotordynamics,
also known as
rotor dynamics,
is a specialized
branch of
applied
mechanics
concerned with

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the behavior and
diagnosis of
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rotating
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structures. It
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is commonly used
to analyze the
behavior of
structures
ranging from jet
engines and
steam turbines
to auto engines
and computer
disk storage. At

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its most basic level, rotor dynamics is concerned with one or more mechanical structures supported by bearings and influenced by internal phenomena that rotate around a single axis. The

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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

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fluid dynamics
(CFD) provides
the helicopter
designer with a
powerful tool
for identifying
problematic
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Through the use

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of CFD, design
concepts can be
analyzed in a
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tunnel long
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physical model
is ever created.

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Applications Of rotor dynamics are associated with important energy industry machinery, such as generators and wind turbines, as well as airplane engines and propellers. This book presents techniques that

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employ the
finite element
method for
modeling and
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associated with
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