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Rotordynamics, also known as rotor dynamics, is a specialized branch of applied mechanics concerned with the behavior and diagnosis of rotating structures. It is commonly used to analyze the behavior of structures ranging from jet engines and steam turbines to auto engines and computer disk storage. At 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 supporting

### **Rotordynamics - Wikipedia**

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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 employ the finite element method for modeling and computation of forces associated with the rotational phenomenon.

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