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Summary Designed to introduce engineers to the theory and analysis of the dynamics of rotating machinery, this volume covers the design of such machinery as turbines, jet engines, pumps and power transmission shafts. It takes into account the forces acting on machine structures, bearings and components. (source: Nielsen Book Data)

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Li, Z., Fang, Z., and Li, J. (August 31, 2020). "A Comparison of Static and Rotordynamic Characteristics for Two Types of Liquid Annular Seals With Parallely Grooved Stator/Rotor."

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Rotordynamics.Org

Counted on daily to perform any number of vital societal tasks, turbomachinery uses high rotational speeds to produce amazing amounts of power efficiently. The key to increasing its longevity, efficiency, and reliability lies in the examination of rotor vibration and bearing dynamics, a field called rotordynamics.

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Rotordynamics: Phenomena, Modeling, and Analysis

Turbomachinery Rotordynamics, Phenomena, Modeling, and Analysis(1993). Additionally, some work has been done on further understanding the leakage of labyrinth seals. Present day labyrinth seal leakage research uses laboratory testing and computational fluid dynamics (CFD) tools to predict seal leakage.

THERMOPLASTIC LABYRINTH SEALS FOR CENTRIFUGAL COMPRESSORS

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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