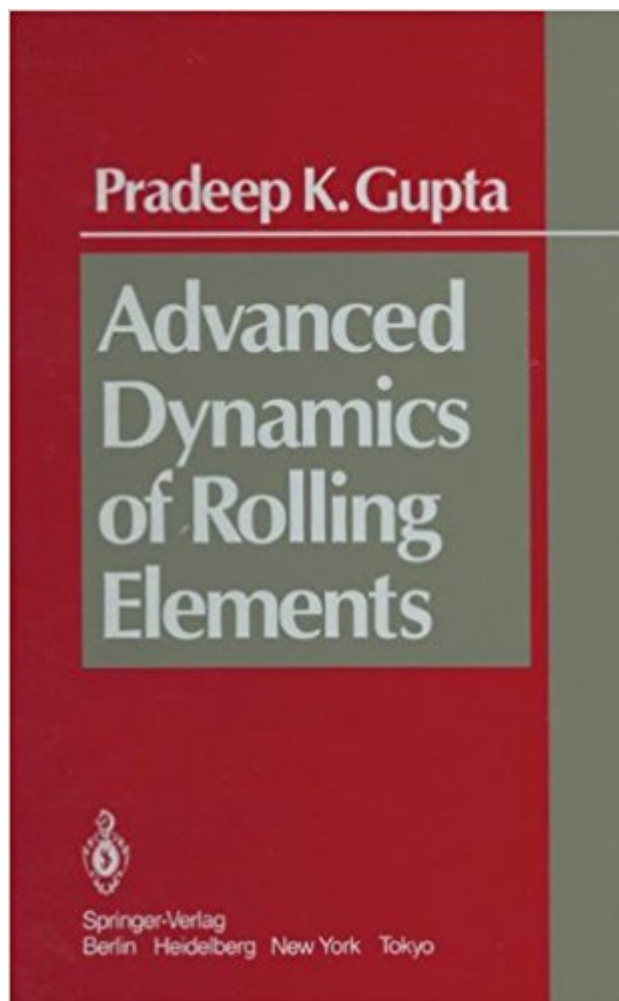


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Advanced Dynamics Of Rolling Elements



Synopsis

In any rotating machinery system, the bearing has traditionally been a critical member of the entire system, since it is the component that permits the relative motion between the stationary and moving parts. Depending on the application, a number of different bearing types have been used, such as oil-lubricated hydrodynamic bearings, gas bearings, magnetic suspensions, rolling element bearings, etc. Hydrodynamic bearings can provide any desired load support, but they are limited in stiffness and the associated power loss may be quite large. Gas bearings are used for high-precision applications where the supported loads are relatively light, bearing power losses are very low, and the rotating speeds generally high. For super-precision components where no frictional dissipation or bearing power loss can be tolerated, magnetic suspensions are employed; again, the load support requirements are very low. Rolling element bearings have been widely used for those applications that require greater bearing versatility, due to the requirements for high-load and high-stiffness characteristics, while allowing moderate power loss and permitting variable speeds. A study of the dynamic interaction of rolling elements is, therefore, the subject of this text. Texts covering the analysis and design methodology of rolling elements are very limited. Notable works include *Analysis of Stresses and Deflections* (Jones, 1946, Vols. I and II), *Ball and Roller Bearings, Their Theory, Design and Application* (Eschmann, Hasbargen, and Weigand, 1958), *Ball and Roller Bearing Engineering* (Palmgren, 1959, 3rd ed.), *Advanced Bearing Technology* (Bisson and Anderson, 1965), and *Rolling Bearing Analysis* (Harris, 1966).

Book Information

Hardcover: 296 pages

Publisher: Springer; 1 edition (October 31, 1984)

Language: English

ISBN-10: 0387960317

ISBN-13: 978-0387960319

Package Dimensions: 9.3 x 6.3 x 0.8 inches

Shipping Weight: 1.3 pounds

Average Customer Review: 4.0 out of 5 stars 1 customer review

Best Sellers Rank: #5,524,519 in Books (See Top 100 in Books) #87 in Books > Engineering & Transportation > Engineering > Mechanical > Tribology #575 in Books > Engineering & Transportation > Automotive > Repair & Maintenance > Vehicle Design & Construction #727 in Books > Science & Math > Physics > Applied

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