



# Essential Concepts of Bearing Technology, Fifth Edition (Rolling Bearing Analysis, Fifth Edition)

By Tedric A. Harris, Michael N. Kotzalas

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The first of two books, Essential Concepts of Bearing Technology builds a basic understanding of the fundamentals underlying the use, design, and performance of rolling bearings. It serves as a stand-alone introduction cutting across the array of disciplines necessary to evaluate and comprehend the performance and behavior of most types of rolling bearings. The authors derive the mathematics and theories underlying catalog values given by manufacturers and lead you from the various types of bearings through bearing geometry, applied loading, internal load distribution, deformation, functional performance, and structural materials.

Essential Concepts of Bearing Technology is an ideal introduction for students and a practical guide for professionals who need more than empirical data to evaluate and compare the performance of various types of bearings from different manufacturers in common applications.

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**Essential Concepts of Bearing Technology, Fifth Edition (Rolling Bearing Analysis, Fifth Edition) By Tedric A. Harris, Michael N. Kotzalas Bibliography**

- Sales Rank: #454907 in Books
- Published on: 2006-10-09
- Original language: English
- Number of items: 1
- Dimensions: 10.32" h x .94" w x 7.34" l, 1.89 pounds
- Binding: Hardcover
- 392 pages

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Harris, Pennsylvania State University, University Park, Pennsylvania.

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