



# Engineering Tribology

By J. A. Williams

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Successful tribological solutions to real design problems--in areas as diverse as plain journal bearings, rolling-element bearings, heavily loaded gear teeth, and cams and followers--require skills from a wide range of disciplines, such as mechanical engineering, surface and lubricant chemistry, materials science, and physics. *Engineering Tribology* provides engineers with a thorough, interdisciplinary understanding of the principles underlying the subject's engineering aspects while indicating important material constraints. Topics include qualitative and quantitative descriptions of engineering surfaces; the development of both elastic and plastic stresses when such surfaces are brought into contact; the underlying mechanisms of friction, surface distress, and wear; the generation of thick pressurized fluid films in both hydrostatic and hydrodynamic bearings; the important features of elasto-hydrodynamic lubrication; mechanisms of boundary lubrication; the design of dry and marginally lubricated bearings; and the principles underpinning the design and operation of rolling contacts and bearings. Problems and answers are provided. This book will be welcomed by student, designers, and researchers in the engineering and physical sciences.

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## Engineering Tribology By J. A. Williams Bibliography

- Sales Rank: #4539931 in Books
- Published on: 1995-01-26
- Original language: English
- Number of items: 1
- Dimensions: 6.25" h x 1.16" w x 9.25" l,
- Binding: Paperback
- 512 pages

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Industrial Lubrication and Tribology, Vol. 47, No. 3, May/June 1995

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#### **About the Author**

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