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Tribology is the science and technology of interacting surfaces in relative motion and of related subjects and practices. The nature and consequences of the interactions that take place at the moving interface control its friction, wear, and lubrication behavior.

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FIGURE 14 Effects of load,
speed, and inlet temperature
on the traction curve.

EXAMPLES LINE CONTACT

Consider a cylindrical
roller of 40 mm diameter and

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30 mm length contacting a cylinder of 120 mm diameter which rotates at 1000 rpm.

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Additionally, the Handbook offers guidance on the ground testing of tribo-components either in isolation or as part of their parent mechanisms. The specific aims of the Handbook are: to provide a definitive reference manual on space tribology; to provide useful data on typical systems where tribology is important either to performance or ...

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performance and design considerations for machine elements, computer storage units, and metal working; and more. Important guidelines for the monitoring, maintenance, and failure assessment of lubrication in automotive, industrial, and aircraft equipment are also included. Current environmental and toxicological concerns complete this one-stop reference. With hundreds of figures, tables, and equations, as well as essential background information explaining the information presented, this is the only source you need to find virtually any

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comprehensive reference to assist the emerging science of tribology lubrication. Later, followed by Volume II, Theory and Design and Volume III, Monitoring, Materials, Synthetic Lubricants, and Ap

Recent research has led to a deeper understanding of the nature and consequences of interactions between materials on an atomic scale. The results have resonated throughout the field of tribology. For example, new applications require detailed understanding of the tribological process on macro- and microscales and

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Part of a series of core databooks within the William Andrew Plastics Design Library, *Fatigue and Tribological Properties of Plastics and Elastomers* provides a comprehensive collection of graphical multipoint data and tabular data covering fatigue and tribology. The concept of fatigue is very straightforward: if an object is subjected to a stress or deformation, and it is repeated, the object becomes weaker. This weakening of plastic material is called fatigue.

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Tribology is the science and technology of surfaces in contact with each other and therefore covers friction, lubrication and wear. The reduction of wear and fatigue and the improvement of lubrication are key bottom-line issues for engineers and scientists involved in the plastics industry and product design with plastics. *Fatigue and Tribological Properties of Plastics and Elastomers, 2e*, is an update of all that has changed in the world of plastics since the 1st edition appeared nearly 15 years ago, and has been reorganized from a polymer chemistry point of view. A

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provide engineers with the
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for low failure rates

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and Design, Second Edition demonstrates how the principles of tribology can address cost savings, energy conservation, and environmental protection.

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including mineral oil, synthetic fluids, and water-based fluids. In the third section, the contributors describe many wear- and friction-reducing materials and treatments, which are currently the fastest growing areas of tribology, with announcements of new coatings, better performance, and new vendors being made every month. The final section presents components, equipment, and designs commonly found in tribological systems. It also examines specific industrial areas and their processes. Sponsored by the Society of Tribologists and Lubrication Engineers, this

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handbook incorporates up-to-date, peer-reviewed information for tackling tribological problems and improving lubricants and tribological systems. The book shows how the proper use of generally accepted tribological practices can save money, conserve energy, and protect the environment.

Applications of tribological technology in bearings are wide and varied in industries ranging from aerospace, marine and automotive to power, process, petrochemical and construction. Applied Tribology, 2nd edition not only covers tribology in

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Coverage of new developments in full-film, dry, and partial lubrication; gas bearings; and ball and roller bearings • Design guides based on full Reynolds equation that enable accurate prediction of load capacity, power loss, temperature rise • Comprehensive presentation of important design factors involving material and lubricants. • State-of-the-art presentation and up-to-date references of pertinent scientific and applied topics in tribology • Numerous examples that reinforce the understanding of concepts and provide procedures for the design

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working in a wide range of industries with machinery including turbines, compressors, motors, electrical appliances and electronic components. Senior and graduate students in mechanical engineering will also find it a useful text and reference.

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