1. Record Nr. UNISA990003685270203316

Autore	JOTTINI, Laura
Titolo	Teaching second language rading in ESP : goals, techniques and procedures / Laura Jottini
Pubbl/distr/stampa	Milano : A. Giuffrè, 1981
Descrizione fisica	206 p. ; 24 cm
Collana	Pubblicazioni della Facoltà di scienze politiche / Università degli studi di Cagliari
Disciplina	346.45067
Collocazione	XXX.A. Coll. 113/ 6 (X 3 VI 9)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9911006843203321

Autore	Stolarski T. A
Titolo	Tribology in machine design / / T.A. Stolarski
Pubbl/distr/stampa	Oxford, : Butterworth-Heinemann, 2000
ISBN	1-283-61924-5 9786613931696 0-08-051967-9
Descrizione fisica	1 online resource (313 p.)
Disciplina	621.89
Soggetti	Machine design Tribology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front Cover; Tribology in Machine Design; Copyright Page; Table of Contents; Preface; Chapter 1. Introduction to the concept of

tribodesign; 1.1. Specific principles of tribodesign; 1.2. Tribological problems in machine design; Chapter 2. Basic principles of tribology; 2.1. Origins of sliding friction; 2.2 Contact between bodies in relative motion; 2.3 Friction due to adhesion; 2.4. Friction due to ploughing; 2.5. Friction due to deformation; 2.6 Energy dissipation during friction; 2.7 Friction under complex motion conditions; 2.8. Types of wear and their mechanisms
2.9. Sliding contact between surface asperities2.10. The probability of surface asperity contact; 2.11. Wear in lubricated contacts; 2.12 Relation between fracture mechanics and wear; 2.13. Film lubrication; References; Chapter 3. Elements of contact mechanics; 3.1. Introduction; 3.2. Concentrated and distributed forces on plane surfaces; 3.3. Contact between two elastic bodies in the form of spheres; 3.4. Contact between cylinders and between bodies of general shape; 3.5. Failures of contacting surfaces; 3.6. Design values and procedures; 3.7. Thermal effects in surface contacts
3.8. Contact between rough surfaces3.9. Representation of machine element contacts; References; Chapter 4. Friction, lubrication and wear in lower kinematic pairs; 4.1. Introduction; 4.2. The concept of friction angle; 4.3. Friction in screws with a square thread; 4.4. Friction in screws with a triangular thread; 4.5. Plate clutch - mechanism of operation; 4.6. Cone clutch - mechanism of operation; 4.7. Rim clutch - mechanism of operation; 4.8. Centrifugal clutch - mechanism of operation; 4.9. Boundary lubricated sliding bearings; 4.10. Drives utilizing friction force
4.11. Frictional aspects of brake design4.12. The role of friction in the propulsion and the braking of vehicles; 4.13. Tractive resistance; 4.14. Pneumatic tyres; 4.15. Tribodesign aspects of mechanical seals; References; Chapter 5. Sliding-element bearings; 5.1. Derivation of the Reynolds equation; 5.2. Hydrostatic bearings; 5.3. Squeeze-film lubrication bearings; 5.4. Thrust bearings; 5.5. Journal bearings; 5.6. Journal bearings for specialized applications; 5.7. Gas bearings; 5.8. Dynamically loaded journal bearings; 5.9. Modern developments in journal bearing design
5.10. Selection and design of thrust bearings5.11. Self-lubricating bearings; References; Chapter 6. Friction, lubrication and wear in higher kinematic pairs; 6.1. Introduction; 6.2. Loads acting on contact area; 6.3. Traction in the contact zone; 6.4. Hysteresis losses; 6.5. Rolling friction; 6.6. Lubrication of cylinders; 6.7. Analysis of line contact lubrication; 6.8. Heating at the inlet to the contact; 6.9. Analysis of point contact lubrication; 6.10. Cam-follower system; References; Chapter 7. Rolling-contact bearings; 7.1. Introduction
7.2. Analysis of friction in rolling-contact bearings

Sommario/riassunto

""Tribology in Machine Design is strongly recommended for machine designers, and engineers and scientists interested in tribology. It should be in the engineering library of companies producing mechanical equipment.""Applied Mechanics ReviewTribology in Machine Design explains the role of tribology in the design of machine elements. It shows how algorithms developed from the basic principles of tribology can be used in a range of practical applications within mechanical devices and systems.The computer offers today's designer the possibility of greater stringen