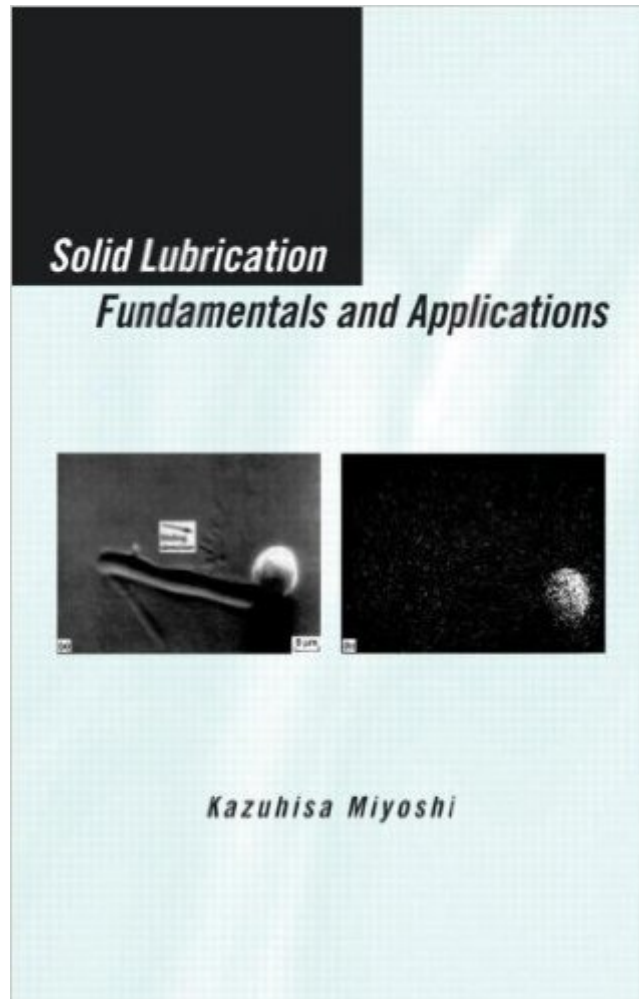# Solid Lubrication Fundamentals And Applications (Materials Engineering)

Synopsis

Solid Lubrication Fundamentals and Applications description of the adhesion, friction, abrasion, and wear behavior of solid film lubricants and related tribological materials, including diamond and diamond-like solid films. The book details the properties of solid surfaces, clean surfaces, and contaminated surfaces as well as discussing the structures and mechanical properties of natural and synthetic diamonds; chemical-vapor-deposited diamond film; surface design and engineering toward wear-resistant, self-lubricating diamond films and coatings. The author provides selection and design criteria as well as applications for synthetic and natural coatings in the commercial, industrial and aerospace industries..

Book Information

Series: Materials Engineering (Book 19)

Hardcover: 416 pages

Publisher: CRC Press; 1st edition (October 2, 2001)

Language: English

ISBN-10: 0824789059

ISBN-13: 978-0824789053

Product Dimensions: 6.3 x 0.9 x 9.4 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,714,654 in Books (See Top 100 in Books)   #84 in Books > Engineering & Transportation > Engineering > Mechanical > Tribology   #1279 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Metallurgy   #1692 in Books > Engineering & Transportation > Engineering > Materials & Material Science > Polymers & Textiles

Download to continue reading...

Solid Lubrication Fundamentals and Applications (Materials Engineering) Heat, Bearings, and Lubrication: Engineering Analysis of Thermally Coupled Shear Flows and Elastic Solid Boundaries Lubrication Fundamentals (Mechanical Engineering) Oil-Mist Lubrication Handbook: Systems and Applications Biomimetic Materials And Design: Biointerfacial Strategies, Tissue Engineering And Targeted Drug Delivery (Manufacturing Engineering & Materials Processing) Mosfet Modeling for VLSI Simulation: Theory And Practice (International Series on Advances in Solid State Electronics) (International Series on Advances in Solid State Electronics and Technology) The Physics And Modeling of Mosfets (International Series on Advances in Solid State Electronics) (International

Series on Advances in Solid State Electronics and Technology (Unnumbered)) Lubrication in Practice, Second Edition (Mechanical Engineering) The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Fundamentals of Network Analysis and Synthesis (Prentice-Hall electrical engineering series. Solid state physical electronics series. Prentice-Hall networks series) Structural Analysis: With Applications to Aerospace Structures (Solid Mechanics and Its Applications) Fundamentals of Earthquake Engineering (Civil engineering and engineering mechanics series) Fundamentals of Nursing: Human Health and Function (Craven, Fundamentals of Nursing: Human Health and Functionraven, Fundamentals of Nurs) Applied Tribology: Bearing Design and Lubrication The Friction and Lubrication of Solids (The International Series of Monographs on Physics) (v. 1) Theory and Practice of Lubrication for Engineers Tribology in Metalworking: Friction, Lubrication and Wear Lubricants and Lubrication Lubrication and Reliability Handbook Engineering Materials 2, Fourth Edition: An Introduction to Microstructures and Processing (International Series on Materials Science and Technology)