



Theory of Lubrication

Prof M K Ghosh, Prof B C Majumdar, Dr Mihir Sarangi

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"This book focuses on both fundamental aspects and advanced topics on mechanics of fluid film lubrication. It begins with a general historical background of 'lubrication, friction and wear', now commonly known as 'Tribology'. Discussing fundamental aspects of viscosity and rheology of fluids used as lubricants in mechanical components and systems including its measurement, the work also looks at fluid dynamics aspects of lubricant films and development of basic equations of lubricant films. It also engages with theories of various modes of lubrication like hydrodynamic, hydrostatic/externally pressurized, elastohydrodynamic and squeeze film lubrication, among other topics. The advanced topics covered in the book include: • thermal effects and temperature rise in lubricant films • lubricant film dynamics • rotor dynamics and vibration • fluid inertia and turbulence effects at high speed • gas lubrication Theory of Lubrication primarily serves the needs of students specializing in design of mechanical systems, researchers, practicing mechanical engineers working in R&D sectors and faculty members of mechanical department handling mechanical design."

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