



Fundamentals of Fluid Film Lubrication (McGraw-Hill Mechanical Engineering)

By Bernard J. Hamrock

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This book is for a one-semester course entitled fluid film lubrication or tribology, for undergraduate seniors or graduate students. It focuses specifically on fluid film lubrication rather than on the general topic of tribology. Hydrodynamic and elastohydrodynamic lubrication are modes of fluid film lubrication and are emphasized in this text, with boundary lubrication given cursory treatment. Additional emphasis is given to deriving formulas from basic theory and providing physical understanding of these formulas. Sample problems illustrate how to apply knowledge from chapter material to the solution of practical problems. The text contains abundant numerical data of properties of fluids and solids used in fluid film lubrication not normally readily available to engineering design people. The text features ample design information which should be helpful to the design of journal and thrust bearings. The physical interpretation of relevant equations are given. Material has been thoroughly class-tested at a variety of schools.

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