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specifically focusing on fluid film hydrodynamic and elastohydrodynamic lubrication this edition studies the most important principles of fluid film lubrication for the correct design of bearings gears and rolling operations and for the prevention of friction and wear in engineering designs it explains various theories procedures and equations for improved solutions to machining challenges providing more than 1120

display equations and an introductory section in each chapter fundamentals of fluid film lubrication second edition facilitates the analysis of any machine element that uses fluid film lubrication and strengthens understanding of critical design concepts

fluid film bearings are machine elements that should be studied within the broader context of tribology the three subfields of tribology friction lubrication and wear are strongly interrelated the last decade has witnessed significant advances in the area of fluid film lubrication and its applications and this second edition offers a look at some of these advances this edition adds to the fundamentals of fluid film lubrication a discourse on surface effects and the inclusion of treatment of flow with significant inertia within the section on turbulence basic ideas of the multigrid method are conveyed along with multilevel multi integration in the treatment of elastohydrodynamic lubrication new chapters have been included on ultra thin films both liquid and gaseous and lubrication of articulating joints and their replacement some of the most recent literature is discussed

fluid film bearings are among the best devices for overcoming friction and eliminating wear they are machine elements and together with shafts gears and cams constitute the building blocks engineers use in the design and construction of mechanical devices this book offers a systematic treatment of the fundamentals of fluid film lubrication and fluid film bearings the introduction places fluid film bearings within the broader context of tribology a subject that encompasses friction lubrication and wear the early chapters provide a thorough discussion of classical tribological theory the remainder of the book is devoted to more advanced topics of inertia thermal and turbulence effects lubrication of counterformal contacts and non newtonian lubricants also included are developing areas such as lubrication with emulsions graduate and senior undergraduate students researchers and practising engineers will appreciate this clear thorough discussion of fluid film lubrication and fluid film bearings

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