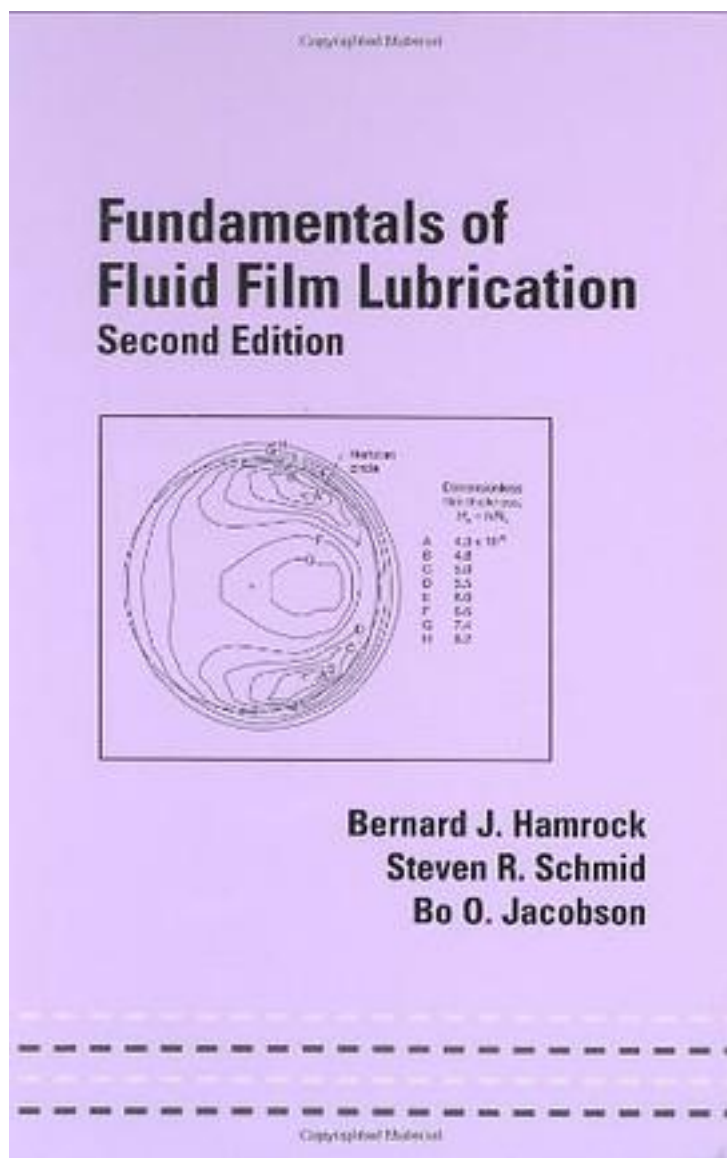


# Fundamentals of Fluid Film Lubrication



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Specifically focusing on fluid film, hydrodynamic, and elastohydrodynamic lubrication, "Fundamentals of Fluid Film Lubrication, Second Edition" studies the most important principles of fluid film lubrication for the correct design of bearings, gears, and rolling operations, and the prevention of friction and wear in engineering designs. The book explains various theories, procedures, and equations for improved solutions to machining challenges. Straightforward and reader-friendly, the second edition strengthens understanding of critical design concepts with newly integrated features such as an introductory section in each chapter that previews material to be covered. The new edition now includes 1120 display equations, an introductory section for each chapter, symbol lists and definitions, and more end-of-chapter problems that encourage creative thinking, both simple and complex. The authors derive all formulas from basic theories and provide new worked examples using a consistent problem-solving format. Topics include surface characterization, bearing materials, and the Reynolds equation; motion and pressurization; and elasticity, film thickness, and effectiveness of lubrication when applied to various conjunctions. Intended for senior undergraduate and graduate engineering courses, "Fundamentals of Fluid Film Lubrication, Second Edition" provides the necessary means to analyse any machine element that uses fluid film lubrication as well as strengthen understanding of critical design concepts.

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