

Ping Huang

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Numerical Calculation of Lubrication

Methods
and Programs

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Numerical Calculation Of Lubrication Methods And Programs

**Institution of Mechanical Engineers
(Great Britain)**

Numerical Calculation Of Lubrication Methods And Programs:

Numerical Calculation of Lubrication Ping Huang, 2013-07-19 Focusing on basic lubrication problems this book offers specific engineering applications The book introduces methods and programs for the most important lubrication problems and their solutions It is divided into four parts The first part is about the general solving methods of the Reynolds equation including solutions of Reynolds equations with different conditions and their discrete forms such as a steady state incompressible slider journal bearing dynamic bearing gas bearing and grease lubrication The second part gives the energy equation solution The third part introduces methods and programs for elasto hydrodynamic lubrication which links the Reynolds equation with the elastic deformation equation The final part presents application lubrication programs used in engineering Provides numerical solution methodologies including appropriate software for the hydrodynamic and elasto hydrodynamic lubrication of bearings Offers a clear introduction and orientation to all major engineering lubrication problems and their solutions Presents numerical programs for specific applications in engineering with special topics including grease lubricated bearings and gas bearings Equips those working in tribology and those new to the topic with the fundamental tools of calculation Downloadable programs are available at the companion website With an emphasis on clear explanations the text offers a thorough understanding of the numerical calculation of lubrication for graduate students on tribology and engineering mechanics courses with more detailed materials suitable for engineers This is an accessible reference for senior undergraduate students of tribology and researchers in thin film fluid mechanics

reference for senior undergraduate students of tribology and researchers in thin film fluid mechanics **Numerical Calculation of Elastohydrodynamic Lubrication** Ping Huang, 2015 *Numerical Calculation of Elastohydrodynamic Lubrication*

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11_15 2000, Numerical Calculation of Lubrication Ping Huang, 2013-10-14 Focusing on basic lubrication problems this book offers specific engineering applications The book introduces methods and programs for the most important lubrication problems and their solutions It is divided into four parts The first part is about the general solving methods of the Reynolds equation including solutions of Reynolds equations with different conditions and their discrete forms such as a steady state incompressible slider journal bearing dynamic bearing gas bearing and grease lubrication The second part gives the energy equation solution The third part introduces methods and programs for elasto hydrodynamic lubrication which links the Reynolds equation with the elastic deformation equation The final part presents application lubrication programs used in engineering Provides numerical solution methodologies including appropriate software for the hydrodynamic and elasto hydrodynamic lubrication of bearings Offers a clear introduction and orientation to all major engineering lubrication problems and their solutions Presents numerical programs for specific applications in engineering with special topics including grease lubricated bearings and gas bearings Equips those working in tribology and those new to the topic with the

fundamental tools of calculation Downloadable programs are available at the companion website With an emphasis on clear explanations the text offers a thorough understanding of the numerical calculation of lubrication for graduate students on tribology and engineering mechanics courses with more detailed materials suitable for engineers This is an accessible reference for senior undergraduate students of tribology and researchers in thin film fluid mechanics

Numerical Methods in Software and Analysis John R. Rice,1993 Emphasizes the use of high quality mathematical software for numerical computation The book discusses numerous programs and software packages focusing on the IMSL library including the PROTRAN system and ACM algorithms Examples and case studies are included

[Hydrodynamic Lubrication of Non-Newtonian Fluids](#) Ping Huang,Qianqian Yang,2022-09-10 Hydrodynamic Lubrication of Non Newtonian Fluids covers basic theory lubrication failure and numerical methods and procedures The title offers a feasible method for solving the hydrodynamic lubrication problem for non Newtonian fluids Whereas hydrodynamic lubrication in Newtonian fluids can be solved using the existing Reynolds equation hydrodynamic lubrication in non Newtonian fluid is much more difficult to solve because the non Newtonian constitutive equation is nonlinear Engineers and technicians working on non Newtonian fluid lubrication calculation and analysis will find this to be an invaluable reference on the latest thinking on hydrodynamic lubrication This book presents a unified solution to hydrodynamic lubrication in non Newtonian fluids proposing a flow separation method In addition the title gives methods and insights into viscosity in non Newtonian fluids the lubrication failure mechanism and fluid lubrication mechanism carrying capacity Offers a solution to hydrodynamic lubrication in non Newtonian fluids Covers a new separation method and sets up an integral differential equation towards a unified method Provides insights into the viscosity of non Newtonian fluids putting forward incremental and full viscosity as important concepts Analyzes the lubrication failure mechanism and fluid lubrication mechanism carrying capacity Presents researchers with a way of calculating and analyzing fluid dynamic pressure lubrication flap lubrication and hot bounce lubrication of common non Newtonian fluids

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Lubrication, Corrosion and Wear ,1986 **ICP Quarterly** International Computer Programs, inc,1969

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