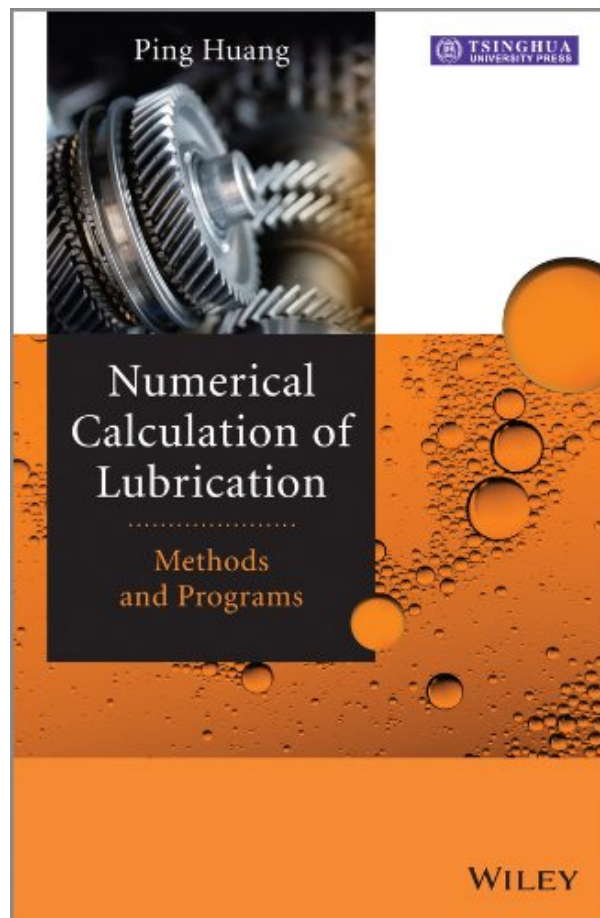
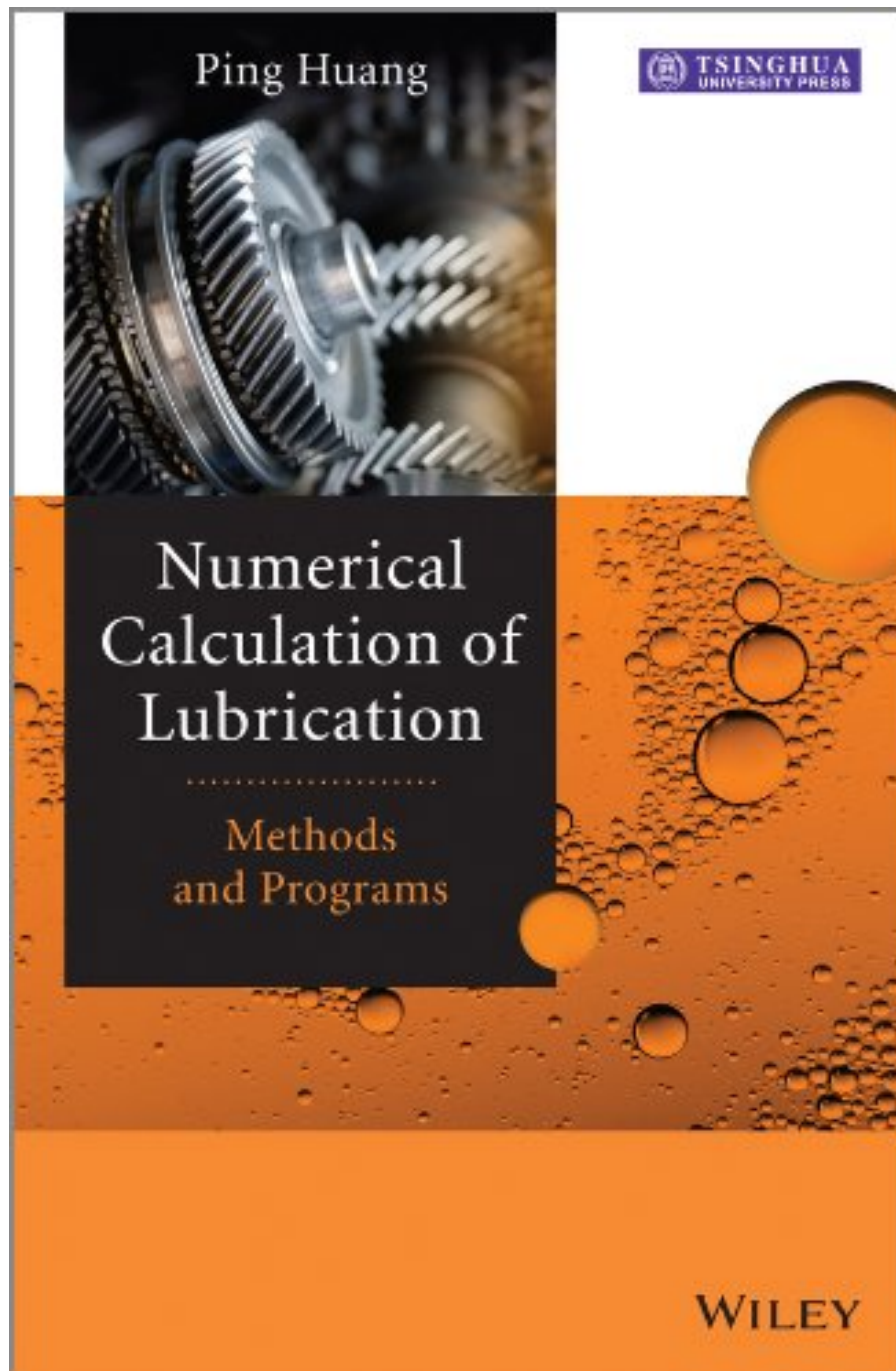


NUMERICAL CALCULATION OF LUBRICATION: METHODS AND PROGRAMS BY PING HUANG



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From the Back Cover

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.

About the Author

Ping Huang, South China University of Technology, Guangzhou, China

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- Sales Rank: #3509485 in eBooks
- Published on: 2013-07-19
- Released on: 2013-07-19
- Format: Kindle eBook

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Ping Huang, South China University of Technology, Guangzhou, China

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Helpful, but lots of room for improvement.

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Some mixed feelings here. I needed an EHL program and wasn't having much luck making my own. This book comes with code, so I got it (on my company's dollar). The problems: Really, the text doesn't explain anything near enough for your average engineer to develop their own code. It's just like reading a journal paper and never gets to explaining the nuts and bolts. Then, there is the code. It's downloadable on the companion site. It's in FORTRAN90. Not ideal, but almost everyone can read it so I'll let that slide. (But it's 2015, maybe make some Matlab options?) The problem is it has errors and looks like it was written by an undergrad with no programming experience. There is no explanation of variables. There are IF loops that do nothing. It's filled with GOTOs instead of well thought out logical structure. Variable and arrays use the same letters to enhance confusion. And there are errors (LINEEHL - has an extra K in a COMMON statement) And how they came up with a lot of the code is a mystery since it doesn't seem to line up with much in the chapters. That being said, you get a starting point for a code you can work with. So, it's useful for \$130 but should have been much, much more so.

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