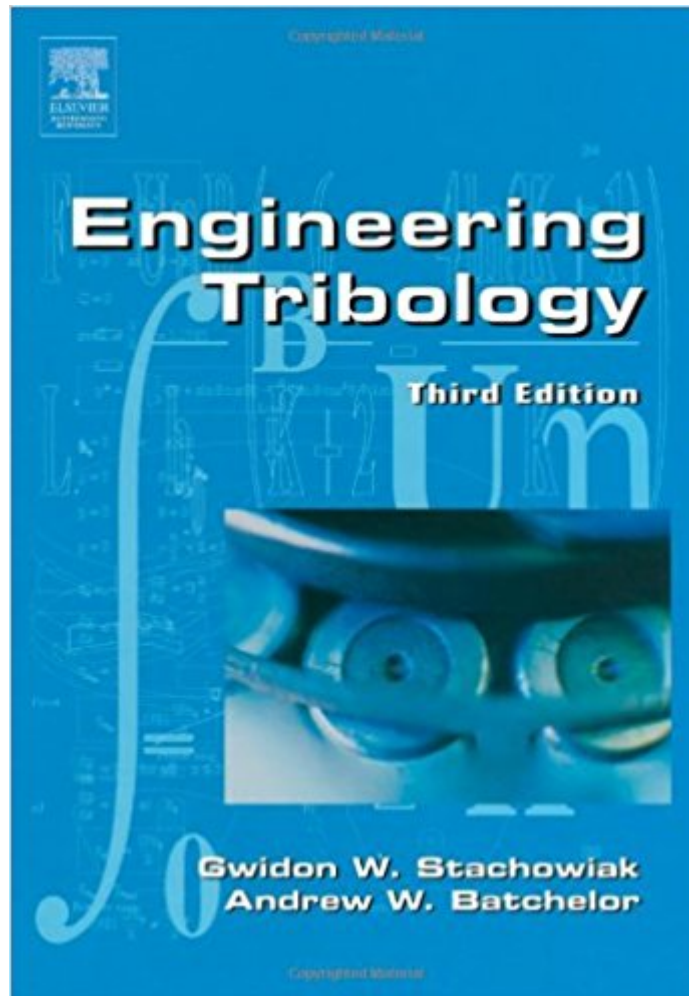




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# Engineering Tribology, Third Edition



## Synopsis

As with the previous edition, the third edition of Engineering Tribology provides a thorough understanding of friction and wear using technologies such as lubrication and special materials. Tribology is a complex topic with its own terminology and specialized concepts, yet is vitally important throughout all engineering disciplines, including mechanical design, aerodynamics, fluid dynamics and biomedical engineering. This edition includes updated material on the hydrodynamic aspects of tribology as well as new advances in the field of biotribology, with a focus throughout on the engineering applications of tribology. This book offers an extensive range of illustrations which communicate the basic concepts of tribology in engineering better than text alone. All chapters include an extensive list of references and citations to facilitate further in-depth research and thorough navigation through particular subjects covered in each chapter. \* Includes newly devised end-of-chapter problems \* Provides a comprehensive overview of the mechanisms of wear, lubrication and friction in an accessible manner designed to aid non-specialists. \* Gives a reader-friendly approach to the subject using a graphic illustrative method to break down the typically complex problems associated with tribology.

## Book Information

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## Customer Reviews

Reviews of the first edition: "Concepts and theory are presented extremely clearly and supported by excellent diagrams and descriptions. The book can be highly recommended to those engaged in studying or applying tribology. I know of no better book on this topic." Journal of Materials and

Processing Technology" The strengths of this book are the comprehensiveness of its coverage and the excellent schematic diagrams of friction and wear mechanisms provided to clarify the text." Industrial Lubrication and Tribology Complicated tribological concepts and theories are introduced extremely clearly. This is one of the reasons why we believe that this book will be beneficial not only for beginners in this field, as it was the authors' original intention of this textbook, but also for experienced specialists. -Tribology International This well-illustrated textbook is a valuable source of information for anyone working and/or studying in the field of tribological and mechanical engineering, i.e. researchers, lecturers, engineers and students. Due to the excellent content of this book, it would even justify a price twice as high as demanded... -Tribology International --This text refers to an out of print or unavailable edition of this title.

Excellent graphic approach and simplified text clearly facilitate understanding of this vital engineering discipline.

If you are interested in the technical side of lubrication, this is a really great engineering book for the mechanical engineer. Well written and contains easy to follow theoretical models. Great for both teaching and research. Best general text on lubrication theory, covering many of the technical areas of bearing wear and fatigue.

The book is easy to read and understand. I use it very frequently and it is important to my work

Tribology is an extremely complex field that encompasses a vast variety of scientific disciplines and includes the work of such scientists as Newton and Raleigh. Stachowiak and Batchelor have produced a technical guide suitable for students, professional engineers and experts alike. It is a complete reference for tribology encompassing such diverse material as lubrication methods (Boundary, EHL etc), design and condition monitoring. The authors have a knack for presenting otherwise inaccessible material in a manner which is easy to digest. Material, sourced and adapted from an extraordinary array of reference sources, is combined with innovative diagrams that complement the text rendering explanations of exceptionally high clarity. Programs, based on the theory presented, are included at the rear of the book presenting the practicing engineer with invaluable tools for the design of tribological devices.

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