



Engineering Tribology (Tribology Series)

By G. W. Stachowiak, A. W. Batchelor

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The interdisciplinary nature of tribology encompasses knowledge drawn from disciplines such as mechanical engineering, materials science, chemistry and physics. The interaction between these different fields of knowledge to achieve the final result, the control of friction and wear, is reviewed in this volume. This interdisciplinary approach has proven to be a very successful way of analysing friction and wear problems. In many cases tribology is viewed as an inaccessible subject which does not produce useful answers. In this volume the authors redress this problem by providing a comprehensive treatment of the subject. A basic feature of the book is the emphasis on describing various concepts in an accessible manner for the benefit of non-specialists. This principle is applied from the beginning of the book, where the reader is introduced to the fundamental concept of tribology. This concept is then often used to show how the various topics in tribology are interrelated to form one coherent subject. A direct graphical illustration of the mechanisms controlling tribological phenomena is presented. Carefully prepared diagrams allow rapid appreciation of the basic ideas and facts in tribology. The numerical analysis of hydrodynamic lubrication is supported by a number of computer programs which are included in the book. The control of wear is given extensive treatment with a thorough discussion of lubricant additives, solid lubricants and surface coatings. The effectiveness of coatings in suppressing specific forms of wear is analyzed together with the methods of coatings deposition. The book contains 474 figures and 44 tables. More than 1000 references are provided to give the reader access to more specialized information if required. The volume is intended to provide graduates in engineering or materials science with an understanding of the fundamental concepts of friction, wear and lubrication.

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Editorial Review

Review

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

From the Publisher

A basic feature of Engineering Tribology 2nd Edition is the emphasis on describing various concepts in an accessible manner for the benefit of non-specialists. This principle is applied from the beginning of the book, where the reader is introduced to the fundamental concept of tribology. This concept is then used to show how the various topics in tribology are interrelated to form one coherent subject. A direct graphical illustration of the mechanisms controlling tribological phenomena is presented. Carefully prepared diagrams allow rapid appreciation of the basic ideas and facts in tribology. The numerical analysis of hydrodynamic lubrication is supported by a number of computer programs which are included in the book. The control of wear is given extensive treatment with a thorough discussion of lubricant additives, solid lubricants and surface coatings. The effectiveness of coatings in suppressing specific forms of wear is analyzed together with the methods of coatings deposition. More than 1000 references are provided to give the reader access to more specialized information if required.

About the Author

Gwidon Stachowiak is a Professor at Curtin University, Perth, Western Australia, specializing in tribology. His research interests include the development of methods for description of multiscale 3D surface topographies, tribocorrosion, and optimization of 3D surface textures for hydrodynamic contacts.

Andrew W. Batchelor has been involved in tribology for 30 years and has taught tribology at universities in Australia, Singapore, Japan, Malaysia and India. He has written books on topics relating to materials degradation, biomaterials and bioengineering.

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