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Engineering Tribology

The field of tribology encompasses knowledge drawn from the disciplines of mechanical engineering, materials science, chemistry and physics. The control of friction and wear, the aim of the subject, is comprehensively and accessibly addressed in this 2nd edition of Engineering Tribology. This interdisciplinary approach has proven to be a very successful way of analyzing friction and wear problems. In conjunction with this 2nd Edition, MATLAB computer programs will be accessible for practical applications via the Butterworth-Heinemann website. 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. An essential aspect of all engineering industry Highly illustrated, comprehensive subject coverage Practical applications used as examples where appropriate

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95,79 € (zzgl. MwSt.)

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Artikelnummer: 9780750673044
Medium: Buch
ISBN: 978-0-7506-7304-4
Verlag: Elsevier Science & Technology
Erscheinungstermin: 30.11.2000
Sprache(n): Englisch
Auflage: 2. Auflage 2000
Produktform: Gebunden
Seiten: 750
Format (B x H): 195 x 240 mm

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Kundenservice Verlag Dr. Otto Schmidt KG
Neumannstraße 10, 40235 Düsseldorf | kundenservice@otto-schmidt.de | 0221-93738-997 (Inland)