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Titolo	Rolling Contacts
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ISBN	1-61344-622-5 0-470-03117-4 0-585-49008-2
Descrizione fisica	1 online resource (xviii, 445 pages)
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Soggetti	Fluid Mechanics
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Sommario/riassunto	An important volume in the & ldquo;Tribology in Practice Series & rdquo; (TIPS). Rolling Contacts presents a general introduction to the fundamentals of rolling friction with the emphasis on important engineering applications of rolling contacts. Rolling Friction is an age & ndash;old engineering problem & ndash; with friction and wear related problems resulting in enormous costs to industry world & ndash;wide. Rolling Contacts presents the fundamentals of rolling contacts of all types, emphasizing important engineering applications & ndash; including rolling bearings, gears, road & ndash;tyre and rail & ndash; wheel interactions, cam & ndash;tappet systems, and roll & ndash; forming of materials. Procedures and techniques of analysis developed throughout the book enhance understanding of this complex subject and help to improve the engineer & rsquo;s ability to design and select rolling contacts for mechanical devices and systems. CONTENTS INCLUDE: Elements of surface contact of solids Fundamentals of rolling motion Dynamic characteristics of rolling motion Rolling contact bearing Rolling contacts in land locomotion Machine elements in rolling contact Non & ndash;metallic rolling contacts. Rolling Contacts will be invaluable to practising designers, researchers, and postgraduate

students. Engineering degree course students will also benefit from this book & rsquo;s thorough introduction to rolling contacts commonly used in practice.