



The Science and Engineering of Cutting: The Mechanics and Processes of Separating, Scratching and Puncturing Biomaterials, Metals and Non-metals

By Tony Atkins

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The materials mechanics of the controlled separation of a body into two or more parts – cutting – using a blade or tool or other mechanical implement is a ubiquitous process in most engineering disciplines. This is the only book available devoted to the cutting of materials generally, the mechanics of which (toughness, fracture, deformation, plasticity, tearing, grating, chewing, etc.) have wide ranging implications for engineers, medics, manufacturers, and process engineers, making this text of particular interest to a wide range of engineers and specialists.

- * The only book to explain and unify the process and techniques of cutting in metals AND non-metals. The emphasis on biomaterials, plastics and non-metals will be of considerable interest to many, while the transfer of knowledge from non-metals fields offers important benefits to metal cutters
- * Comprehensive, written with this well-known author's lightness of touch, the book will attract the attention of many readers in this underserved subject
- * The clarity of the text is further enhanced by detailed examples and case studies, from the grating of cheese on an industrial scale to the design of scalpels

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Editorial Review

Review

"This book will be unique in really examining all forms of cutting and machining. Prof. Atkins writes in a discursive, very readable fashion bringing in examples from a wide range of sources. I am sure the book will be accessible to a wide range of readers from the first year undergraduate to the most experienced research worker." - Brian Cotterel, University of Sydney

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