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Sommario/riassunto

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, be it mechanical, civil, medical, food or process based, and a surprising number of engineers are involved in cutting and the design of cutting tools. There are a wide range of books available on the cutting of metals, but no other text is devoted to the cutting of materials generally, the mechanics of which (toughness, fracture, deformation, plasticity, tearing, grating, chewing, etc) hav