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The first paperbound edition of a previously acclaimed title, this practical volume provides needed guidance on one of the most important methods of removing unwanted material in the production of chemical components. It identifies problem areas and relates performance to fundamentals of

physics, chemistry, materials behavior, heat transfer, solid mechanics, and tribology, illustrating how solutions to new machining problems may be achieved by application of scientific principle. The two-dimensional cutting process is analyzed, with special attention paid to cutting temperatures,

tool wear and tool life, as well as the integrity of the finished surface. Machining economics and the optimization of processes are explained in fundamental terms, while the complexities of the cutting process are closely scrutinized.