DeVries

Analysis of Material Removal Processes

Metal removal processes - cutting and grinding in this book - are an integral part of a large number of manufacturing systems, either as the primary manufacturing process, or as an important part of preparing the tooling for other manufacturing processes. In recent years, industry and educational institutions have concentrated on the metal removal system, perhaps at the expense of the process. This book concentrates on metal removal processes, particularly on the modeling aspects that can either give a direct answer or suggest the general requirements as to how to control, improve or change a metal removal process. This modeling knowledge is more important with automated computer controlled systems than it has ever been before, because quantitative knowledge is needed to design and operate these systems. This senior undergraduate/graduate textbook is aimed at providing the quantitative knowledge, often times at an elementary level, for handling the technological aspects of setting up and operating a metal removal process and interpreting the experience of planning, operating and improving a metal removal process based on rule of thumb approaches.

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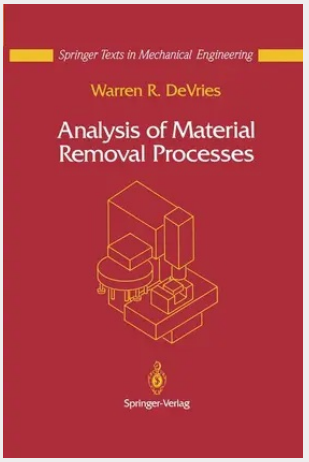

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