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Cutting Data For Turning Of Steel

Cutting Data for Turning of Steel

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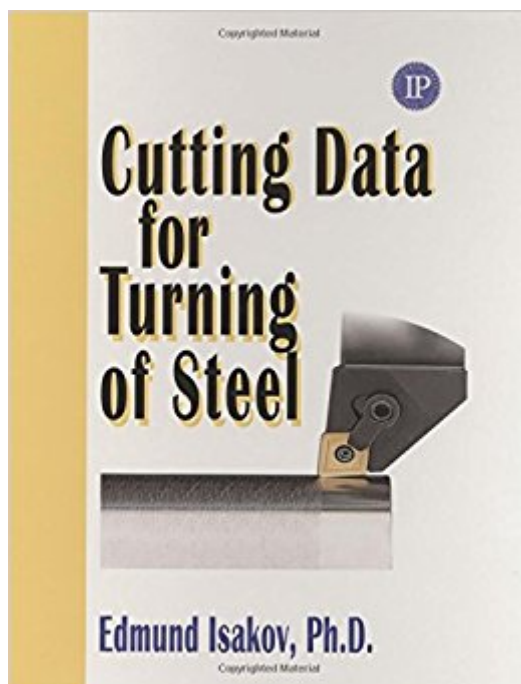
Synopsis

Mechanical Properties of Steel   Hardness Carbon Steels Alloy Steels Stainless Steels Tool Steels Cutting Tools Materials   High Speed Steels Cemented Carbides Cermets Ceramics Polycrystalline Cubic Boron Nitride (PCBN) Machining Recommendations   Depth of Cut and Feed Rate Cutting Speeds for Carbon Steels Cutting Speeds for Alloy Steels Cutting Speeds for Stainless Steels Cutting Speeds for Tool Steels Machining Power   Metal Removal Rate Unit Power and Power Constant Calculating Required Machining Power Appendix 1: Hardness ConversionAppendix 2: Carbon Steels Appendix 3: Alloy Steels Appendix 4: Stainless Steels Appendix 5: Tool SteelsMachining is one of the most important manufacturing processes, which remove unwanted material in the form of chips from a workpiece. Material removal operations are among the most expensive; in the U.S. alone, more than $100 billion were spent on machining in 1999. These high costs put tremendous economic pressures on production managers and engineers as they struggle to find ways to increase productivity.Machining recommendations provided in this book cover turning since it allows removing more material per unit of time and consuming more power at the roughing operations than end milling, boring or drilling. Machining recommendations relate to cutting speeds, feed rates, and depth of cuts. Such recommendations depend on the workpiece material properties and the cutting tool material. Workpiece materials described in this book are the most commonly used grades of carbon, alloy, stainless, tool, and maraging steels. Cutting tool materials are cemented carbides, cermets, and ceramics.

Book Information

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Customer Reviews

There is a great discrepancy between the title of the book and its contents. The author focusses more on hardness conversion than really cutting parameters. There is only one chapter devoted to machining recommendations. The rest is filled with dull appendices which only reproduces excel spreadsheets. Not worth the money at all.

This book is great for learning.

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