

<<制造工程与技术>>

图书基本信息

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内容概要

本影印改编教材《制造工程与技术》取自原版英文教材《Manufacturing Engineering and Technology》(Prentice Hall 2010, 第6版, ISBN 978-0-13-067814-4)中的部分篇章。

针对国内教学课程设置, 将原书内容改编为机加工和热加工两册, 并分别出版, 方便学校选用。

为保持书籍内容体系, 方便读者查找和了解原书全貌, 特别在两册中保留完整的改编目录。

内容涵盖切削基础, 刀具材料与切削液, 回转体与非回转体加工, 加工中心, 机床结构及机加工经济性, 磨削与光整加工, 先进加工方法与纳米制造, 制造工艺过程自动化、计算机集成制造系统和制造的竞争性。

作者简介

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<<制造工程与技术>>

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制造工程与技术——机加工

章节摘录

版权页：插图：Although numerical control of machine tools, beginning in the early 1950s, was a key factor in setting the stage for modern manufacturing, much of the progress in manufacturing activities stems from our ability to view these activities and operations as a large system with often complex interactions among all of its components. In implementing a systems approach to manufacturing, we can integrate and optimize various functions and activities that, for a long time, had been separate and distinct entities. As the first of the four chapters in the final part of this book, Chapter 24 introduces the concept of automation and its implementation, in terms of key developments in numerical control and, later, in computer numerical control. This introduction is followed by a description of the advances made in automation and controls, involving major topics such as adaptive control, industrial robots, sensor technology, material handling and movement, and assembly systems and how they are all implemented in modern production.

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