



## Advanced Manufacturing Technology

By YiPing-Tang

2015. Soft cover. Book Condition: New. 1st Edition. Computers are influencing changes in the way manufacturing enterprises carry out their business operations and manage production functions. Computers aid in planning for the accomplishment of objectives through effective management. They assist in planning and establishing exactly where and when various activities that are part of a long-term program are carried out. They help planners produce optimized schedules and improve production line efficiency, and use manufacturing resource planning (MRP II) which is a formal system for planning and managing a production function. The use of computers has gone beyond the calculation of payroll or the fancy electric typewriter that can produce reports by the tons of paper. Computers are now contributing to the relief of many labor intensive tasks with intricate programs assisting the design process and the automation of the factory. Computers are changing the internal structure of manufacturing organizations, their methods of operations, and their external relationship to society. They assist in all manufacturing operations. In this scenario, all actions occur in engineering where new products are conceived and then presented to potential customers. The computer has a key role, and computer graphics is a core tool. It is normal practice in conceptual or preliminary design to make iteration after iteration to develop a product. Analysis and simulation methods also draw on the computer for support. A...



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