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Computer-integrated manufacturing is the approach to the use of computers for controlling the production process. It allows the exchange of information between processes. It is used in multiple domains, such as in mechanical engineering, electronic design automation, industrial and production engineering, etc.

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Automation, Production Systems, and Computer-Integrated Manufacturing provides up-to-date coverage of production systems, how they are sometimes automated and computerized, and how they can be mathematically analyzed to obtain performance metrics. The text is designed primarily for engineering students at the advanced undergraduate or beginning graduate levels in industrial, mechanical, and manufacturing engineering.

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Automation - Automation - Computer-integrated manufacturing: Since about 1970 there has been a growing trend in manufacturing firms toward the use of computers to perform many of the functions related to design and production. The technology associated with this trend is called CAD/CAM, for computer-aided design and computer-aided manufacturing.

Automation - Computer-integrated manufacturing | Britannica

Automation, Production Systems, and Computer-Integrated Manufacturing is appropriate for advanced undergraduate/ graduate-level courses in Automation, Production Systems, and Computer-Integrated Manufacturing. The book should also be useful for practicing engineers and managers who wish to learn about automation and production systems technologies in modern manufacturing.

Automation, Production Systems, and Computer-Integrated ...

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Automation, Production Systems, and Computer-integrated ...

10. Computer-integrated manufacturing (CIM) Taking the previous strategy one level higher, we have the integration of factory operations with engineering design and the business functions of the firm. CIM involves extensive use of: Computer applications, Computer data bases, and; Computer networking throughout the enterprise.

10 Strategies for Automation and Production Systems

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Automation, Production Systems, and Computer-Integrated ...

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Automation, production systems, and computer-integrated ...

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For advanced undergraduate/ graduate-level courses in Automation, Production Systems, and Computer-Integrated Manufacturing. This exploration of the technical and engineering aspects of automated production systems provides the most advanced, comprehensive, and balanced coverage of the subject of any text on the market. It covers all the major cutting-edge technologies of production automation and material handling, and how these technologies are used to construct modern manufacturing systems.

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Automation is the technology that is designed to function without human assistance. Various control systems are used for the operation of equipment used in factories, boilers, ships, aircraft, etc. Automation is achieved by integrating hydraulic, electrical, mechanical, pneumatic and electronic devices and computers. It results in labor, electricity cost and material cost saving. It also ensures improvement of quality, precision and accuracy. Computer-integrated manufacturing is the approach to the use of computers for controlling the production process. It allows the exchange of information between processes. It is used in multiple domains, such as in mechanical engineering, electronic design automation, industrial and production engineering, etc. This book unfolds the innovative aspects of automation, production systems and computer-integrated manufacturing which will be crucial for the holistic understanding of modern manufacturing. Most of the topics introduced herein cover new techniques and the applications of these processes. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subjects.

For advanced undergraduate/ graduate-level courses in Automation, Production Systems, and Computer-Integrated Manufacturing. This exploration of the technical and engineering aspects of automated production systems provides the most advanced, comprehensive, and balanced coverage of the subject of any text on the market. It covers all the major cutting-edge technologies of production automation and material handling, and how these technologies are used to construct modern manufacturing systems.

This up-to-date and accessible text deals with the basics of Computer Integrated Manufacturing (CIM) and the many advances made in the field. It begins with a discussion on automation systems, and gives the historical background of many of the automation technologies. Then it moves on to describe the various techniques of automation such as group technology and flexible manufacturing systems. The

text describes several production techniques, for example, just-in-time (JIT), lean manufacturing and agile manufacturing, besides explaining in detail database systems, machine functions, and design considerations of Numerical Control (NC) and Computer Numerical Control (CNC) machines, and how the CIM system can be modelled. The book concludes with a discussion on the industrial application of artificial intelligence with the help of case studies, in addition to giving network application and signalling approaches. Intended primarily as a text for the undergraduate and graduate students of mechanical, production, and industrial engineering and management, the text should also prove useful for the professionals in the field.

Mikell Groover, author of the leading text in manufacturing processes, has developed Introduction to Manufacturing Processes as a more navigable and student-friendly text paired with a strong suite of additional tools and resources online to help instructors drive positive student outcomes. Focusing mainly on processes, tailoring down the typical coverage of both materials and systems. The emphasis on manufacturing science and mathematical modeling of processes is an important attribute of the new book. Real world/design case studies are also integrated with fundamentals - process videos provide students with a chance to experience being 'on the floor' in a manufacturing facility, followed by case studies that provide individual students or groups of students to dig into larger/more design-oriented problems.

Manufacturing industries are devoted to producing high-quality products in the most economical and timely manner. Quality, economics, and time not only indicate the customer-satisfaction level, but also measure the manufacturing performance of a company. Today's manufacturing environments are becoming more and more complex, flexible, and information-intensive. Companies invest into the information technologies such as computers, communication networks, sensors, actuators, and other equipment that give them an abundance of information about their materials and resources. In the face of global competition, a manufacturing company's survival is becoming more dependent on how best this influx of information is utilized. Consequently, there evolves a great need for sophisticated tools of performance analysis that use this information to help decision makers in choosing the right course of action. These tools will have the capability of data analysis, modeling, computer simulation, and optimization for use in designing products and processes. International competition also has had its impact on manufacturing education and the government's support of it in the US. We see more courses offered in this area in industrial engineering and manufacturing systems engineering departments, operations research programs, and business schools. In fact, we see an increasing number of manufacturing systems engineering departments and manufacturing research centers in universities not only in the US but also in Europe, Japan, and many developing countries.

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