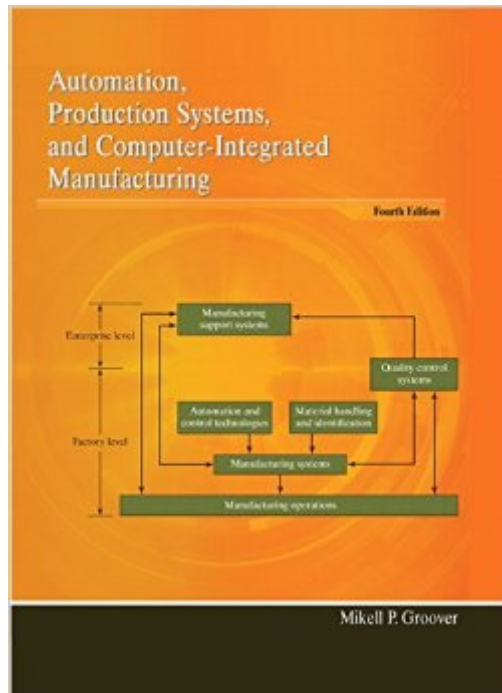


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Automation, Production Systems, And Computer-Integrated Manufacturing (4th Edition)



Synopsis

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. 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. Teaching and Learning Experience This book will provide a better teaching and learning experience for you and your students. It will help:

- Provide Balanced Coverage of Automated Production Systems: A quantitative approach provides numerous equations and example problems for instructors who want to include analytical and quantitative material in their courses.
- Support Learning: End-of-chapter problems, review questions, and problem exercises give students plenty of opportunities to put theory into action.
- Keep Your Course Current: This edition 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.

Book Information

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Customer Reviews

Lacking important concepts from 1st edition that should have been in the chapters on production mathematical models. (Scrap, Time In Plant, etc.) Good descriptions of general machine automation processes. Good overview of NC, CNC machining, covering more in these chapters than some texts associated with only this topic. Good overview chapters of industrial robotics, PLC control and programming, in-plant material handling, manufacturing system schemes, assembly systems, quality control, Statistics, inspection and planning. Overall a very capable text. When coupled with a well developed laboratory, would be a text for a very complete college level Industrial Automation course.

This book covers a huge amount of topics related to the automation, organisation and control of production systems. I studied this book for a class, and I think that the quality of especially the quantitative methods presented is only fair. Besides that: the content on the automation- and control topics, is way out of date. Nice book (if you can buy it second hand), but money can buy better books new.

I sincerely believe that this book has been one of the best in its field. I just hope that Prof. Groover will publish another edition of this book reflecting the current changes in the manufacturing world.

This is a good book. It covers all the automation process of a factory. It gives to the reader a good idea on "how-to-do" and mainly the possibilities of what to do in your company. It is good to students and to the companies that want to get bigger and efficient. Unfortunately the programming examples are just little old (languages).

This book explains the fundamental principles as well as practical applications of computer-based manufacturing in a clear and effective manner. The illustrations complement the text well, and are worth the price of the book alone.

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