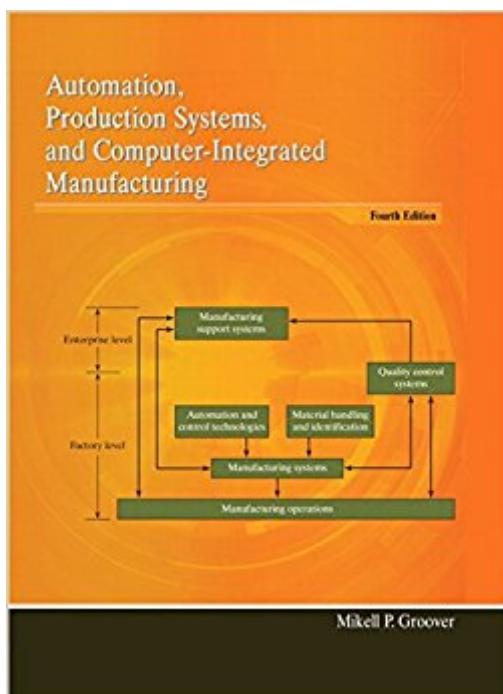


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Automation, Production Systems, And Computer-Integrated Manufacturing (4th Edition)



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.

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Mikell P. Groover is Professor Emeritus of Industrial and Systems Engineering at Lehigh University, where he taught and did research for 44 years. He received his B.A. in Arts and Science (1961), B.S. in Mechanical Engineering (1962), M.S. in Industrial Engineering (1966), and Ph.D. (1969), all from Lehigh. His industrial experience includes several years as a manufacturing engineer before embarking on graduate studies at Lehigh. His teaching and research areas include manufacturing processes, production systems, automation, material handling, facilities planning, and work systems. He has received a number of teaching awards at Lehigh University, as well as the Albert G. Holzman Outstanding Educator Award from the Institute of Industrial Engineers (1995) and the SME Education Award from the Society of Manufacturing Engineers (2001). His publications include over 75 technical articles and 12 books (listed below). His books are used throughout the world and have been translated into French, German, Spanish, Portuguese, Russian, Japanese, Korean, and Chinese. The first edition of Fundamentals of Modern Manufacturing received the IIE Joint Publishers Award (1996) and the M. Eugene Merchant Manufacturing Textbook Award from the Society of Manufacturing Engineers (1996). Dr. Groover is a member of the Institute of Industrial Engineers (IIE) and the Society of Manufacturing Engineers (SME). He is a Fellow of IIE and SME.

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