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provides comprehensive survey of concepts principles and practices of modern manufacturing styles systems

engineers rely on groover because of the book s quantitative and engineering oriented approach that provides more equations and numerical problem exercises the fourth edition introduces more modern topics including

new materials processes and systems end of chapter problems are also thoroughly revised to make the material more relevant several figures have been enhanced to significantly improve the quality of artwork all of these changes will help engineers better understand the topic and how to apply it in the field

fundamentals of modern manufacturing materials processes and systems 6th edition is designed for a first course or two course sequence in manufacturing at the junior level in mechanical industrial and manufacturing engineering curricula as in preceding editions the author's objective is to provide a treatment of manufacturing that is modern and quantitative the book's modern approach is based on balanced coverage of the basic engineering materials the inclusion of recently developed manufacturing processes and comprehensive coverage of electronics manufacturing technologies the quantitative focus of the text is displayed in its emphasis on manufacturing science and its greater use of mathematical models and quantitative end of chapter problems access to wileyplus sold separately

this book takes a modern all inclusive look at manufacturing processes its coverage is strategically divided 65 concerned with manufacturing process technologies 35 dealing with engineering materials and production systems

automation production systems and computer integrated manufacturing is appropriate 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 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 computerised and how they can be mathematically analysed to obtain performance metrics the full text

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market desc engineers material scientists chemists plant managers and consultants special features presents a new chapter on nanotechnology includes updated and new line drawings and photographs that enhance the material offers updated problem sets and questions throughout the chapters covers electronics manufacturing one of the most commercially important areas in today s technology oriented economy contains historical notes that introduce manufacturing from the earliest materials and processes like woodworking to the most recent about the book in this introductory book groover not only takes a modern all inclusive look at manufacturing processes but also provides substantial coverage of engineering materials and production systems it follows a more quantitative and design oriented approach than other texts in the market helping readers gain a better understanding of important concepts they ll also discover how material properties relate to the process variables in a given process as well as how to perform manufacturing science and quantitative engineering analysis of manufacturing processes

a comprehensive exploration of manufacturing technology

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fundamentals of modern manufacturing is a balanced and qualitative examination of the materials methods and procedures of both traditional and recently developed manufacturing principles and practices this comprehensive textbook explores a broad range of essential points of learning from long established manufacturing processes and materials to contemporary electronics manufacturing technologies an emphasis on the use of mathematical models and equations in manufacturing science presents readers with quantitative coverage of key topics while plentiful tables graphs illustrations and practice problems strengthen student comprehension and retention now in its seventh edition this leading textbook provides junior or senior level engineering students in manufacturing courses with an inclusive and up to date treatment of the basic building blocks of modern manufacturing science coverage of core subject areas helps students understand the physical and mechanical properties of numerous manufacturing materials the fundamentals of common manufacturing processes the economic and quality control issues surrounding various processes and recently developed and emerging manufacturing technologies thorough investigation of topics such as metal casting and welding material shaping processes machining and cutting technology and manufacturing systems and support helps students gain solid foundational knowledge of modern manufacturing

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