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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

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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

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this book takes a modern all inclusive look at manufacturing processes but also provides a substantial coverage of engineering materials and production systems materials processes and systems are the basic building blocks of manufacturing and the three broad subject areas of this book material properties product attributes engineering materials solidification processes particulate processing for metals and ceramics metal forming and sheet metalworking material removal processes properties enhancing and surface processing operations joining and assembly processes special processing and assembly technologies manufacturing systems support functions in manufacturing

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

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

materials processes and systems are the building blocks of modern manufacturing this second edition of mikell groover s comprehensive text on the subject provides substantial coverage of engineering materials and production systems

from concept development to final production this comprehensive text thoroughly examines the design prototyping and fabrication of engineering products and emphasizes modern developments in system modeling analysis and automatic control this reference details various management strategies design methodologies traditional production techniques and assembly applications for clear illustration of manufacturing engineering technology in the modern age considers a variety of methods for product design including axiomatic design design for x group technology and the taguchi method as well as modern production techniques including laser beam machining microlithography

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