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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

the impact of the technology of computer aided design and manufacturing in automobile engineering marine engineering and aerospace engineering has been tremendous using computers in manufacturing is receiving particular prominence as industries seek to improve product quality increase productivity and to reduce inventory costs therefore the emphasis has been attributed to the subject of cad and its integration with cam designed as a textbook for the undergraduate students of mechanical engineering production engineering and industrial engineering it provides a description of both the hardware and software of cad cam systems the coverage includes principles of interactive computer graphics wireframe surface and solid modelling finite element modelling and analysis nc part programming and computer aided part programming machine vision systems robot technology and automated guided vehicles flexible manufacturing systems computer integrated manufacturing artificial intelligence and expert systems communication systems in manufacturing pedagogical features cnc program examples and apt program examples review questions at the end of every chapter a comprehensive glossary a question bank at the end of the chapters

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this book covers the important elements of industrial engineering that all engineers need to know in order to become effective in their day to day activities it explores basic topics such as scheduling quality control forecasting and queueing theory other topics include paving a path to production control engineering and its management and the operational aspects of manufacturing and service industries the reader will learn to apply these principles and tools not only to initiate improvements in their places of work but also to pave career path to management and positions with higher levels of responsibility and decision making

a comprehensive exploration of manufacturing technology

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

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