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Solution: Shear rate = $(5 \text{ m/s} \times 1000 \text{ mm/m}) / (4 \text{ mm}) = 1250 \text{ s}^{-1}$? = $(10\text{N/m}^2) / (1250 \text{ s}^{-1}) = 0.008 \text{ N-s/m}^2 = 0.008 \text{ Pa-s}$ 3.29 Two parallel surfaces, separated by a space of 0.5 in that is occupied by a fluid, are moving relative to each other at a velocity of 25 in/sec.

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4. In the context of manufacturing, a manufacturing system is a collection of men, machine tools, and material-moving systems, collected together to accomplish specific manufacturing or fabrication sequences, resulting in components or end products. The manufacturing system is backed up by and supported by the production system, which

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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.

Reflecting the increasing importance of ceramics, polymers, composites, and silicon in manufacturing, Fundamentals of Modern Manufacturing Second Edition provides a comprehensive treatment of these other materials and their processing, without sacrificing its solid coverage of metals and metal processing. Topics include such modern processes as rapid prototyping, microfabrication, high speed machining and nanofabrication. Additional features include: Emphasis on how material properties relate to the process variables in a given process. Emphasis on manufacturing science and quantitative engineering analysis of manufacturing processes. More than 500 quantitative problems are included as end of chapter exercises. Multiple choice quizzes in all but one chapter (approximately 500 questions). Coverage of electronics manufacturing, one of the most commercially important areas in today's technology oriented economy. Historical notes are included to introduce manufacturing from the earliest materials and processes, like woodworking, to the most recent.

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

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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.

Groover's Principles of Modern Manufacturing 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.

This book is a collection of chapters linked together by a logical framework aimed at exploring the modern role of the measurement science in both the technically most advanced applications and in everyday life Provides a unique methodological approach to understanding modern measurements Important methods and devices are presented in a synthetic and easy-to-understand way Includes end-of-chapter exercises and solutions

Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and storage of fluids.

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.

Modern Manufacturing Processes draws on the latest international research on traditional and non-traditional practices, to provide valuable advice on the digitization and automation of the manufacturing industry. In addition to providing technical details for the correct implementation of the latest tools and practices, the impacts on productivity and design quality are also examined. The thorough classification of manufacturing processes will help readers to decide which technology is most effective for their requirements, and comparisons between modern and traditional methods will clarify the case for upgrading. This comprehensive assessment of technologies will include additive manufacturing, and industry 4.0, as well as hybrid methods where exceptional results have been gained through the use of traditional technology. This collection of work by academics at the cutting edge of manufacturing

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research will help readers from a range of backgrounds to understand and apply these new technologies. Explains how the correct implementation of modern manufacturing processes can help a factory gain the characteristics of an industry 4.0 business Explores what the main technical and business drivers for new manufacturing processes are today Provides detailed classifications and comparisons of traditional, non-traditional, and hybrid manufacturing processes

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