

Solution Manual for Automation, Production Systems, and Computer-Integrated Manufacturing 4th editor by Groover

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Chapter 1

INTRODUCTION

REVIEW QUESTIONS

- 1.1 What is a production system?

Answer: As defined in the text, a production system is a collection of people, equipment, and procedures organized to perform the manufacturing operations of a company.

- 1.2 Production systems consist of two major components. Name and briefly define them.

Answer: The two major components given in the text are (1) facilities, which consist of the factory, the equipment in the factory, and the way the equipment is organized; and (2) manufacturing support systems, which are the procedures used by the company to manage production and to solve the technical and logistics problems encountered in ordering materials, moving the work through the factory, and ensuring that products meet quality standards. Product design and certain business functions are included among the manufacturing support systems.

- 1.3 What are manufacturing systems, and how are they distinguished from production systems?

Answer: A manufacturing system is a logical grouping of equipment in the factory and the worker(s) who operate(s) it. Examples include worker-machine systems, production lines, and machine cells. A production system is a larger system that includes a collection of manufacturing systems and the support systems used to manage them. A manufacturing system is a subset of the production system.

- 1.4 Manufacturing systems are divided into three categories, according to worker participation. Name the three categories.

Answer: The three categories are (1) manual work systems, (2) worker-machine systems, and (3) automated systems.

- 1.5 What are the four functions included within the scope of manufacturing support systems?

Answer: As identified in the text, the four functions are (1) business functions, (2) product design, (3) manufacturing planning, and (4) manufacturing control.

- 1.6 Three basic types of automation are defined in the text. What is fixed automation and what are some of its features?

Answer: Fixed automation is a system in which the sequence of processing (or assembly) operations is fixed by the equipment configuration. Each operation in the sequence is usually simple, but the integration and coordination of many such operations in one piece of equipment makes the system complex. Typical features of fixed automation are (1) high initial investment for custom-engineered equipment, (2) high production rates, and (3) relatively inflexible in accommodating product variety.

- 1.7 What is programmable automation and what are some of its features?

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Instructor's Solutions Manual to Accompany Introduction to Manufacturing Processes John A. Schey, 2000 Materials and Processes in Manufacturing E. Paul DeGarmo, 1997-01-01 **Solutions Manual to Accompany Introduction to Manufacturing Processes** J.A. Schey, 1977 Solutions Manual, Processes and Design for Manufacturing Sherif D. El Wakil, 1989 *Solutions Manual to Accompany Modern Manufacturing Process Engineering* Benjamin W. Niebel, Alan B. Draper, Richard A. Wysk, 1990 *Solutions Manual : Fundamentals of Modern Manufacturing* M P. Groover, 2002

International Manufacturing Strategy in a Time of Great Flux Louis Brennan, Alessandra Vecchi, 2016-09-02 This book assesses the state of international manufacturing strategy and clarifies how recent developments for example regarding configuration technology and the environment are impacting on its content and direction and on its relationship to manufacturing performance In providing up to date coverage of the consequences of such forces and factors for international manufacturing this book aims to expand the debate concerning international manufacturing strategy and cast light on its current evolution International manufacturing is operating within a time of great flux While offshoring of activities has dominated over recent decades nearshoring and reshoring are increasingly being considered and observed in practice At the same time technologies such as 3D printing are gaining traction and the role of ICT and data analytics is increasingly important in the international manufacturing landscape while digitization becomes more prevalent and the embrace of the Internet of Things IOT accelerates Furthermore issues related to the environment are figuring more prominently in international manufacturing considerations and assumptions regarding the long term cost of energy are being called into question International manufacturing is also experiencing greater servitization Solutions Manual for Manufacturing Processes for Engineering Materials, Fourth Edition Serop Kalpakjian, Steven R. Schmid, 2003 **Solutions Manual** Ernest Paul DeGarmo, 1979 **Manufacturing Industries** , 1927 **Manufacturing Processes** Wal Amstead, 1987-11-18

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Management and Administration in Manufacturing Industries , 1924 **Management and Administration in Manufacturing Industries** Leon Pratt Alford, 1927 Automation, Production Systems, and Computer-aided Manufacturing Mikell P. Groover, 1987 **Solutions Manual - Assembly Automation and Product Design** Boothroyd/Geoffrey, 2005-06

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