

Solution Manual for Fundamentals of Modern Manufacturing: Materials, Processes, and Systems, 5th Edition

Solutions for Fundamentals of Modern Manufacturing, 5e

1 INTRODUCTION

Review Questions

- 1.1 About what percentage of the U.S. gross domestic product (GDP) is accounted for by the manufacturing industries?

Answer: Although the percentage has varied over the years, currently the manufacturing industries account for around 12% of U.S. GDP.

- 1.2 Define manufacturing.

Answer: The text defines manufacturing in two ways: technologically and economically. Technologically, **manufacturing** is the application of physical and chemical processes to alter the geometry, properties, and/or appearance of a given starting material to make parts or products; manufacturing also includes assembly of multiple parts to make products. Economically, **manufacturing** is the transformation of materials into items of greater value by means of one or more processing and/or assembly operations. The key point is that manufacturing **adds value** to the material by changing its shape or properties, or by combining it with other materials.

- 1.3 What are the differences between primary, secondary, and tertiary industries? Give an example of each category.

Answer: A primary industry is one that cultivates and exploits natural resources, such as agriculture or mining. A secondary industry takes the outputs of primary industries and converts them to consumer and capital goods. Examples of secondary industries are textiles and electronics. A tertiary industry is in the service sector of the economy. Examples of tertiary industries are banking and education.

- 1.4 What is the difference between a consumer good and a capital good? Give some examples in each category.

Answer: Consumer goods are products purchased directly by consumers, such as cars, personal computers, TVs, tires, and tennis rackets. Capital goods are those purchased by companies to produce goods and/or provide services. Examples of capital goods include aircraft, computers, communication equipment, medical apparatus, trucks and buses, railroad locomotives, machine tools, and construction equipment.

- 1.5 What is the difference between soft product variety and hard product variety, as these terms are defined in the text?

Answer: Soft product variety is when there are only small differences among products, such as the differences among car models made on the same production line. In an assembled product, soft variety is characterized by a high proportion of common parts among the models. Hard product variety is when the products differ substantially, and there are few common parts, if any. The difference between soft and hard product variety is in the degree of standardization of the parts used in the products.

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