



FIGURE 1.1 Two ways to define manufacturing: (a) as a technical process, and (b) as an economic process.

Manufacturing is almost always carried out as a sequence of operations. Each operation brings the material closer to the desired final state.

Economically, *manufacturing* is the transformation of materials into items of greater value by means of one or more processing and/or assembly operations, as depicted in Figure 1.1(b). The key point is that manufacturing *adds value* to the material by changing its shape or properties, or by combining it with other materials that have been similarly altered. The material has been made more valuable through the manufacturing operations performed on it. When iron ore is converted into steel, value is added. When sand is transformed into glass, value is added. When petroleum is refined into plastic, value is added. And when plastic is molded into the complex geometry of a patio chair, it is made even more valuable.

The words *manufacturing* and *production* are often used interchangeably. The author's view is that production has a broader meaning than manufacturing. To illustrate, one might speak of "crude oil production," but the phrase "crude oil manufacturing" seems out of place. Yet when used in the context of products such as metal parts or automobiles, either word seems okay.

1.1.2 MANUFACTURING INDUSTRIES AND PRODUCTS

Manufacturing is an important commercial activity performed by companies that sell products to customers. The type of manufacturing done by a company depends on the kind of product it makes. Let us explore this relationship by examining the types of industries in manufacturing and identifying the products they make.

Manufacturing Industries Industry consists of enterprises and organizations that produce or supply goods and services. Industries can be classified as primary, secondary, or tertiary. *Primary industries* cultivate and exploit natural resources, such as agriculture and mining. *Secondary industries* take the outputs of the primary industries and convert them into consumer and capital goods. Manufacturing is the principal activity in this category, but construction and power utilities are also included. *Tertiary industries* constitute the service sector of the economy. A list of specific industries in these categories is presented in Table 1.2.

This book is concerned with the secondary industries in Table 1.2, which include the companies engaged in manufacturing. However, the International Standard Industrial Classification (ISIC) used to compile Table 1.2 includes several industries whose production technologies are not covered in this text; for example, beverages, chemicals, and food processing. In this book, manufacturing means production of *hardware*, which ranges from nuts and bolts to digital computers and military weapons. Plastic and ceramic

Principles Of Modern Manufacturing 4th Edition Solution

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Table of Contents Principles Of Modern Manufacturing 4th Edition Solution

1. Understanding the eBook Principles Of Modern Manufacturing 4th Edition Solution
 - The Rise of Digital Reading Principles Of Modern Manufacturing 4th Edition Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Principles Of Modern Manufacturing 4th Edition Solution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Principles Of Modern Manufacturing 4th Edition Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Principles Of Modern Manufacturing 4th Edition Solution
 - Personalized Recommendations
 - Principles Of Modern Manufacturing 4th Edition Solution User Reviews and Ratings
 - Principles Of Modern Manufacturing 4th Edition Solution and Bestseller Lists
5. Accessing Principles Of Modern Manufacturing 4th Edition Solution Free and Paid eBooks
 - Principles Of Modern Manufacturing 4th Edition Solution Public Domain eBooks
 - Principles Of Modern Manufacturing 4th Edition Solution eBook Subscription Services
 - Principles Of Modern Manufacturing 4th Edition Solution Budget-Friendly Options

6. Navigating Principles Of Modern Manufacturing 4th Edition Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - Principles Of Modern Manufacturing 4th Edition Solution Compatibility with Devices
 - Principles Of Modern Manufacturing 4th Edition Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Principles Of Modern Manufacturing 4th Edition Solution
 - Highlighting and Note-Taking Principles Of Modern Manufacturing 4th Edition Solution
 - Interactive Elements Principles Of Modern Manufacturing 4th Edition Solution
8. Staying Engaged with Principles Of Modern Manufacturing 4th Edition Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Principles Of Modern Manufacturing 4th Edition Solution
9. Balancing eBooks and Physical Books Principles Of Modern Manufacturing 4th Edition Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Principles Of Modern Manufacturing 4th Edition Solution
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Principles Of Modern Manufacturing 4th Edition Solution
 - Setting Reading Goals Principles Of Modern Manufacturing 4th Edition Solution
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Principles Of Modern Manufacturing 4th Edition Solution
 - Fact-Checking eBook Content of Principles Of Modern Manufacturing 4th Edition Solution
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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