

Futuristic Manufacturing

Perpetual Advancement and Research Challenges

Increased industrial capacity, manufacturing output, and manufacturing technology all contribute significantly to a country's GDP. Manufacturing is the foundation of industrial production, so improving its methods and infrastructure is crucial for progress. Recent years have seen the introduction of a wide range of energy- and resource-efficient, environmentally friendly, and occupationally safe manufacturing techniques, and this book focuses on these latest techniques, as well as continuous advancement, in order to meet current challenges. The book is divided into three sections: (1) subtractive manufacturing, (2) additive manufacturing, and (3) the use of artificial intelligence in manufacturing. It discusses micromachining, metal-based additive manufacturing, polymer-based additive manufacturing, hybrid additive manufacturing, and finally artificial intelligence in manufacturing. Futuristic Manufacturing: Perpetual Advancement and Research Challenges connects modern manufacturing methods and emerging trends in the industry. It adds a thorough examination of modern manufacturing techniques and modifications that may be implemented in the future, and is an excellent resource of information for undergraduate and graduate students in manufacturing.

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