

This book summarizes the emergence and exploration of modern manufacturing techniques (MMTs) with a focus on metallic and advanced material-based additive manufacturing technologies, and their potential applications. Further, it exploits advanced machining techniques towards production and applications of novel nanomaterials, and modern sophisticated techniques for fabrication of ultrafine electronic devices like micro-electromechanical systems (MEMS), nano-electromechanical systems (NEMS), semiconductors and optical systems. It also includes a dedicated chapter on manufacturing technology for Industry 4.0.

**Features:**

- Describes the background of manufacturing techniques in brief including advent of and introduction to modern manufacturing techniques (MMTs).
- Reviews various types of MMTs established in recent years and their accelerated growth and development innovation driven applications.
- Overviews the physical and chemical techniques used for nanomaterials production.
- Explores the fabrication mechanism of MEMS, NEMS, semiconductors and optical devices.
- Provides a conceptual overview of additive manufacturing technologies.

This book aims at Undergraduate, Senior undergraduate students, and Professionals in mechanical, manufacturing engineering, and manufacturing industry.

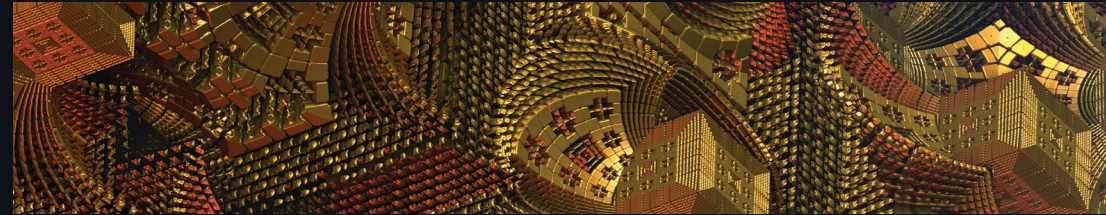
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## Spotlight on Future

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