Manufacturing Engineering: An online reading list from the IET Library

These ebooks and ejournals, available via the IET Virtual Library, focus on the topic of manufacturing engineering covering topics such as biomanufacturing, computer aided design and smart materials.
Ebooks (provided by EBSCO)


- **Nanotechnology for Smart Concrete**, Huseien, Khalid and Mirza. (2022). This book covers the advantages and applications of nanomaterials in the concrete industry, including high-strength performance, microstructural improvement, energy storage, and coatings.


- **Computer Aided Design and Manufacturing**, Bi and Wang. (2020). This book addresses the need to provide up-to-date coverage of current CAD/CAM usage and implementation and covers, in one source, the entire design-to-manufacture process.

- **Additive Manufacturing Technologies From an Optimization Perspective**, Kumar, Zindani and Davim. (2019). This book is a critical reference source that provides a unified platform for the dissemination of basic and applied knowledge about additive manufacturing, highlighting topics such as bio-printing, tensile strength, and cell printing.

- **Machinery’s Handbook (31st Edition)**, Oberg et al. (2020). This handbook is a popular engineering resource, considered the principal reference in the manufacturing and mechanical industries.


- **Novel Design and Applications of Robotics Technologies**, Dan and Bin. (2019). This book provides innovative insights into the state-of-the-art technologies in the design and development of robotic technologies and their real-world applications.

- **Design and Development of Aircraft Systems**, Seabridge and Moir. (2020). This book covers how industry develops the customer requirement for aircraft into a fully integrated, tested, and qualified product that is safe to fly and fit for purpose.

Ejournals (provided by EBSCO)

- **Electro Manufacturing**. Provides news and information on new computer and electronic technologies being developed and applied to all areas of manufacturing to increase efficiency and productivity.

- **Manufacturing Today**. Shares best practice and success stories as well as spotlighting growth opportunities and explaining new tools in the manufacturing sector.

- **Materials and manufacturing processes**. Deals with integration of design and manufacturing activities requiring the invention of suitable new manufacturing processes and techniques.

- **Journal of Intelligent Manufacturing**. Includes papers on the application of artificial intelligence in manufacturing and features articles on new methodologies and developments.

- **DEMM: Engineering & Manufacturing**. Covers a broad range of topics related to development and innovation in manufacturing and machinery.

- **Automotive Manufacturing Solutions**. Features, reports, interviews, news and products/technologies related to vehicle manufacturing globally.

- **Materials**. A leading journal of materials science and engineering covering theory and practice.

- **Materials Science**. Discusses new research in areas such as corrosion, cracking, fatigue, fracture, friction, lubrication of polymer materials, and the development of new materials.

- **Concrete Products**. Serves ready mixed and manufactured-concrete producers through news reports, monthly columns, feature stories, and electronic newsletters.

- **Modern Machine Shop**. Feature articles, commentaries, interviews, legislation, new products and literature and equipment reviews aimed at personnel employed in manufacturing plants.

- **International Journal of Rotating Machinery**. Presents research results on types of rotating machinery employing gas, vapor, particle, liquid, and their mixtures.

Further resources from the IET

- Communities and Networks
- Factfiles
- IET Academy
- IET Digital Library
- Technical Webinars

Visit theiet.org/virtual-library to view more content.

Help and contacts

If you need any assistance on using library collections and resources you can contact us via email at libdesk@theiet.org. You can also discover more resources and support provided by the IET Library and Archives at our homepage.

IET members can access the Virtual Library via the single sign-on (SSO) service. If you are experiencing difficulties logging in via the SSO please contact the membership services team at membership@theiet.org.