



Manufacturing Engineering Handbook (McGraw-Hill Handbooks)

Hwaiyu Geng

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As

an engineer or manager, we all facing challenges in a cross-functional among design, manufacturing, production and business environments around sustainability and green. To design a manufacturing process, we must consider:

- What are the goals?
- What are the constraints?
- What are the knowns and unknowns?
- Which are feasible solutions?
- How the solution is validated?
- How can one apply technical and business knowledge to finalize an optimum solution plan considering increased productivity, quality, sustainability, reliability, agility, resilience, and best practices with rapid time to production and value? The list can go on and on.

Our

challenges may be:

- Design products with manufacturability and sustainability
- Prepare manufacturing plans to reduce waste and save energy,
- Prepare manufacturing process integrated to internet and data analytics
- Increase productivity of an existing manufacturing process,
- Improve product quality and minimize defects,
- Apply new manufacturing technologies, or
- Simply to understand a traditional manufacturing process, etc.

The goal of this *Manufacturing Engineering Handbook* is to provide readers with essential knowledge needed to build products with the highest quality at the lowest cost in the shortest possible time. With this handbook, you'll have access to information on conventional and modern technologies, manufacturing processes and operations management that will assist you to achieve the goals.

This handbook covers the following topics:

- Product design and manufacturing
- Manufacturing automation and technologies
- Hot and cold working, welding, and fabrication
- Metalworking, machine design, and workholding
- Robotics, machine vision, and surface preparation
- Plastics, composites, and moldmaking
- Manufacturing processes design
- Industrial engineering
- Global manufacturing and supply chain

with details in conventional manufacturing processes as well as advanced technologies such as additive manufacturing.

In general, each chapter contains the following:

- Basic process descriptions with illustrations (diagrams, graphs and tables),
- Design with suitable materials and best practice manufacturing process,
- Production economic and quality considerations,
- Sustainability considerations,
- Internet and data analytics
- Future trends, and
- References.

The basic process covers fundamentals of a technology and its applications. Design and production considerations include product design, manufacturing, quality, safety, environment issues, economy, and the best practices. There are useful tips for planning, implementing, and controlling manufacturing processes. The future trends and reference

sections

provide visionary views and lists of relevant books, technical papers, and websites for additional reading.

This Manufacturing

Engineering Handbook is specifically designed to provide technical knowledge

for those who are responsible for the plan, design, manufacturing, and

operations management of manufacturing environment. The following professionals and managers will find

this handbook to be a

useful and enlightening resource:

- Educators and Students
- Product Design Engineers and Managers
- Manufacturing Engineers and Managers
- Industrial Engineers and Managers
- Automation Engineers and Managers
- Production Control and Inventory Engineers and Managers
- Operations personnel and Managers
- Facilities Maintenance Managers and Engineers
- Quality Assurance Inspectors, Engineers and Managers
- R&D Researchers
- Finance Managers
- Purchasing, Sales & Marketing Personnel
- Cost Estimators

This

Manufacturing Engineering Handbook are prepared by world-class

professionals. It covers the breadth and

depth of manufacturing technologies, designing, building and operating. This Handbook will be the most

updated and

comprehensive single-source guide ever published in its field.



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