



Manufacturing Engineering Handbook

By Hwaiyu Geng

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If you are a plant engineer working in an automotive factory and find yourself in the hot working portion of the plant, you should look up section 6 on hot work and forging processing. You will find it very useful for learning the machines and processes to get the job done. Likewise, if you are a Design Engineer and need information regarding hydraulics, generators & transformers, turn to chapter 3, section 3.2.3, and you'll find generators & transformers.

Covering topics from engineering mathematics to warehouse management systems, *Manufacturing Engineering Handbook* is the most comprehensive single-source guide to Manufacturing Engineering ever published.

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Editorial Review

Review

Review by: K. Srinagesh, University of Massachusetts Dartmouth. .

. Over the last several decades, the technology of manufacturing has gone through changes, many drastic. There are so many innovations, additions, and acronyms that people who have been involved with manufacturing for the last 30 or 40 years are left wondering, at the heights of their careers, if they are strangers to the profession. To them, this book will be a welcome relief. At the same time, it serves amateurs as a guide to the ever-widening world of manufacturing. Editor Geng (Hewlett-Packard) has arranged 67 industry experts' contributions into 61 chapters. Compacted into only about 1,100 pages, this book covers all aspects of manufacturing: planning, processes, quality assurance, experiments, economics, marketing, management, etc. Most of the chapters are short, crisp, and loaded with the latest know-how. This reviewer recommends that all entry-level manufacturing engineers and students read at minimum at least a few selected chapters; and seasoned engineers, a lot more than that. This is a worthy addition to any library with even a few patrons interested in manufacturing. Summing Up: Essential. General readers; upper-division undergraduates through professionals..

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It is every company's goal to build the highest quality goods at the lowest price in the shortest time possible. The *Manufacturing Engineering Handbook* provides all the information needed to optimize the design of manufacturing processes.

This book includes conventional metalworking plus the latest manufacturing and automation technologies, including:

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- * Moldmaking
- * Machine design
- * Robotics
- * Machine vision
- * Surface preparation
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- * Supply chain material control
- * Productive Maintenance
- * Much more

Written by a team of international experts, the *Manufacturing Engineering Handbook* details both conventional and emerging manufacturing tools and processes, covering crucial manufacturing issues like new product development, improving manufacturing yield, implementing automated production facilities, and establishing quality and safety programs.

Each chapter in this handbook includes the fundamentals of relevant technology and its industrial application; operational considerations for planning, implementing, and controlling manufacturing processes; and a list of relevant books, technical papers, and websites for additional reading. This inclusive, wide-ranging approach makes the *Manufacturing Engineering Handbook* the most comprehensive single-volume reference ever published in the field.

About the Author

Hwaiyu Geng, CMfgE, PE, is a Project Manager in Corporate Project Planning and Management at Hewlett-Packard Company, Palo Alto, California. While in charge of planning and implementing Hewlett-Packard's \$51-million inkjet plant in Shanghai, China, he charted and directed the design, construction, and manufacturing plan, and completed the installation and startup of the manufacturing plant. Also, as Hewlett-Packard's Seismic Program Manager, Mr. Geng established safety and quality control procedures for the corporation's seismic assurance and mitigation projects in Shanghai and elsewhere.

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