



Mechanical Design Handbook, Second Edition: Measurement, Analysis and Control of Dynamic Systems (McGraw Hill Handbooks (Hardcover))

By Harold Rothbart, Thomas Brown

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Optimize the efficiency and reliability of machines and mechanical systems

Totally redesigned to meet today's mechanical design challenges, this classic handbook provides a practical overview of the complex principles and data associated with the design and control of dynamic mechanical systems.

- New Chapters on continuous control systems, digital control systems, and optical systems
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Editorial Review

From the Back Cover

Everything needed to build, measure, and analyze dynamic mechanical systems

Totally redesigned to meet the challenges of a new mechanical age, this classic handbook provides a practical overview of the complex principles and data associated with the design and control of dynamic mechanical systems.

This comprehensive reference includes: classical mechanics...kinematics of mechanisms...static and fatigue design...mechanical vibrations...friction, lubrication, and wear...system dynamics...machine systems...reliability...cam mechanisms...power screws...friction clutches and brakes...belts, chains, and gearing...and more.

Filled with over 600 detailed illustrations, the Second Edition has been updated to include:

- Dynamic system analysis and synthesis
- Continuous time control systems
- Digital control systems
- Optical systems
- Power transmission and subsystems

CONTENTS OF THIS HANDS-ON ENGINEERING AND DESIGN RESOURCE INCLUDE:

- Mechanical engineering fundamentals
- System analysis and synthesis
- Power transmission and control subsystems
- Analytical methods for engineers
- Numerical methods for engineers
- Standards for mechanical elements

About the Author

Harold Rothbart is a noted consulting engineer and lecturer. He is author of numerous books including the *Mechanical Design Handbook* and *Mechanical Design and Systems Handbook, 2nd Edition*. He was formerly Dean of the College of Science and Engineering at Fairleigh Dickinson University.

Thomas H. Brown is the co-author of the *Standard Handbook of Machine Design, 3rd Edition* and the author of *Mark's Calculations for Machine Design*. His area of specialty is Stress Analysis and Machine Design. In 1995, Dr. Brown was approached by a major corporation in North Carolina to deliver a comprehensive program for the FE Review and the Civil, Electrical, Mechanical, and Nuclear Engineering PE Exams.

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