



# **The Mechanical Systems Design Handbook: Modeling, Measurement, and Control (Electrical Engineering Handbook)**

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With a specific focus on the needs of the designers and engineers in industrial settings, The Mechanical Systems Design Handbook: Modeling, Measurement, and Control presents a practical overview of basic issues associated with design and control of mechanical systems. In four sections, each edited by a renowned expert, this book answers diverse questions fundamental to the successful design and implementation of mechanical systems in a variety of applications.

Manufacturing addresses design and control issues related to manufacturing systems. From fundamental design principles to control of discrete events, machine tools, and machining operations to polymer processing and precision manufacturing systems.

Vibration Control explores a range of topics related to active vibration control, including piezoelectric networks, the boundary control method, and semi-active suspension systems.

Aerospace Systems presents a detailed analysis of the mechanics and dynamics of tensegrity structures

Robotics offers encyclopedic coverage of the control and design of robotic systems, including kinematics, dynamics, soft-computing techniques, and teleoperation.

Mechanical systems designers and engineers have few resources dedicated to their particular and often unique problems. The Mechanical Systems Design Handbook clearly shows how theory applies to real world challenges and will be a welcomed and valuable addition to your library.



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