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Chapter 1 – Introduction to Mechatronics
Questions 1.1 What is mechatronics?
Mechatronics is the field of study
concerned with the design, selection,
analysis and control of systems that
combine mechanical elements with
electronic components as well as
computers and/or microcontrollers.
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all of which are fundamental to
understanding mechatronic
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the text, and in "Design Example"
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Manual. Factors to be considered when selecting a machining process that meets the design specifications, including part features, materials, product accuracy, surface texture, surface integrity, cost, environmental impacts, and the process and the machine selected capabilities

Introduction to new Magnetic Field Assisted Finishing Processes Written by an expert with 37 years of experience in research and teaching machining and related topics, this covers machining processes that range from basic conventional metal cutting, abrasive machining to the most advanced nonconventional and micromachining processes. The author presents the principles and theories of material removal and applications for conventional and nonconventional machining processes, discusses the role of machining variables in the technological characteristics of each

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Learn how to study, analyze, select, and design a successful mechatronic product. This innovative, cutting-edge publication presents the essential nature of mechatronics, a field at the crossroads of information technology and mechanical and electrical engineering. Readers learn how to blend mechanisms, electronics, sensors, control strategies, and software into a functional design. Given

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the breadth that the field of mechatronics draws upon, this publication provides a critical service to readers by paring down the topics to the most essential ones. A common thread throughout the publication is tailoring performance to the actual needs of the user, rather than designing "by the book." Practical methods clarify engineering trade-offs needed to design and manufacture competitive state-of-the-art products and systems. Key features include:

- * Easy-to-construct set of laboratory experiments to give readers practice in controlling difficult systems using discrete-time algorithms
- * Essentials of control theory, concentrating on state-space and easily constructed simulations in JavaScript, including typical mechatronic systems with gross nonlinearities where linear methods give the "wrong answer"
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