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large, its reduction must be
achieved by redesigning the
system and/or resorting to a
suitable control strategy.

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Applications, Volume 10 brings together diverse information on important progress in the field of control and systems theory and applications. This volume is comprised of contributions from leading researchers in the field. Topics discussed include the evaluation of suboptimal strategies using quasilinearization; aircraft symmetric flight optimization; aircraft maneuver optimization by reduced-order approximation; and differential dynamic programming. Estimation of uncertain systems; application of modern control and optimization

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techniques to transportation systems; and integrated system identification and optimization are also elucidated. Aerospace engineers and scientists and researchers in applied sciences will find the book interesting.

This book presents up-to-date research developments and novel methodologies to solve various stability and control problems of dynamic systems with time delays. First, it provides the new introduction of integral and summation inequalities for stability analysis of

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nominal time-delay systems in continuous and discrete time domain, and presents corresponding stability conditions for the nominal system and an applicable nonlinear system. Next, it investigates several control problems for dynamic systems with delays including $H(\infty)$ control problem; Event-triggered control problems; Dynamic output feedback control problems; Reliable sampled-data control problems. Finally, some application topics covering filtering, state estimation, and synchronization are considered. The book will be a valuable resource and

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guide for graduate students, scientists, and engineers in the system sciences and control communities.

Control and Dynamic Systems: Advances in Theory and Applications, Volume 46: Manufacturing and Automation Systems: Techniques and Technologies, Part 2 of 5 covers the significant advances and issues on the utilization of techniques and technologies in the manufacturing industries.

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This volume is divided into nine chapters and starts with the essential issue of software in manufacturing systems, particularly the aspects of the control software that are active in the time-critical or real time portions of the machine's operation. The succeeding chapters deal with the interactions between material-handling systems and other components of manufacturing systems; the principles of flexible manufacturing systems; the various views on the contributions of mechatronics; and the techniques for machine layout optimization in

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Systems Design And automation systems. These topics are followed by discussions of the application of a real-time control system to address issues of safety, productivity advances, and production cost reductions. Other chapters consider the influence of human supervisory control of predominantly automated manufacturing processes and the techniques for the manufacturing systems integration. The final chapter examines the major importance of the assembly line balancing to manufacturing systems. This book is of great value to process and mechanical

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engineers, as well as process control workers and researchers.

This book presents Networked Control System (NCS) as a particular kind of a real-time distributed system (RTDS), composed of a set of nodes, interconnected by a network, and able to develop a complete control process. It describes important parts of the control process such as sensor and actuator activities, which rely on a real-time operating system, and a real-time communication network. As the use of common bus network architecture introduces different forms

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of uncertainties between sensors, actuators, and controllers, several approaches such as reconfigurable systems have been developed to tackle this problem. Moreover, modeling NCS is a challenging procedure, since there are several non-linear situations, like local saturations, uncertain time delays, dead-zones, or local situations, it is necessary to deal with. The book describes a novel strategy for modelling and control based on a fuzzy control approach and codesign strategies.

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