

Fourth Edition

Introduction to MECHATRONICS and Measurement Systems



David G. Alciatore
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Introduction To Mechatronics And Measurement Systems

David G. Ullman



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reduced coverage of uncertainty and statistical methods Statistics is now treated in chapter 2 as one of several methods available to design engineers and statistical applications are no longer integrated throughout the text examples and problem sets Other major changes include updated coverage of the design process streamlined coverage of statistics a more practical overview of materials and materials selection moved to chapter 3 revised coverage of failure and fatigue and review of basic strength of materials topics to make a clearer link with prerequisite courses Overall coverage of basic concepts has been made more clear and concise with some advanced topics deleted so that readers can easily navigate key topics Problem sets have been improved with new problems added to help students progressively work through them The book has an Online Learning Center with several powerful components MATLAB for Machine Design featuring highly visual MATLAB simulations and accompanying source code the FEPC finite element program with accompanying Finite Element Primer and FEM Tutorials interactive FE Exam questions for Machine Design and Machine Design Tutorials for study of key concepts from Parts I and II of the text Complete Problem Solutions and PowerPoint slides of book illustrations are available for instructors under password protection A printed Instructor s Solutions Manual is also available with detailed solutions to all chapter problems

Mechanics of Fluids Irving Herman Shames,2003 In keeping with previous editions this book offers a strong conceptual approach to fluids based on mechanics principles The author provides rigorous coverage of underlying math and physics principles and establishes clear links between the basics of fluid flow and subsequent advanced topics like compressible flow and viscous fluid flow

Engineering Design George Ellwood Dieter,2000 Publisher Description
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