Matlab For Control Engineers Katsuhiko Ogata

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mathematical modeling of control systems mathematical modeling of mechanical systems and electrical systems mathematical modeling of fluid systems and thermal systems

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for senior level courses in control theory offered by departments of electrical computer engineering or mechanical aerospace engineering notable author katsuhiko ogata presents the only book available to discuss in sufficient detail the details of matlab materials needed to solve many analysis and design problems associated with control systems in this new text ogata complements a large number of examples with in depth explanations encouraging complete understanding of the matlab approach to solving problems the book s flexible presentation makes it ideal for use as a stand alone text for those wishing to expand their knowledge of matlab it can also be used in conjunction with a wide range of currently available control textbooks

control systems engineering is a comprehensive text designed to cover the complete syllabi

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the book serves to be both a textbook and a reference for the theory and laboratory courses offered to undergraduate and graduate engineering students and for practicing engineers

this package includes a physical copy of modern control engineering international version by katsuhiko ogata as well as access to matlab for senior or graduate level students taking a first course in control theory in departments of mechanical electrical aerospace and chemical engineering a comprehensive senior level textbook for control engineering ogata s modern control engineering 5 e offers the comprehensive coverage of continuous time control systems that all senior students must have including frequency response approach root locus approach and state space approach to analysis and design of control systems the text provides a gradual development of control theory shows how to solve all computational problems with matlab and avoids highly mathematical arguments a wealth of examples and worked problems are featured throughout the text the new edition includes improved coverage of root locus analysis chapter 6 and frequency response analysis chapter 8 the author has also updated and revised many of the worked examples and end of chapter problems this text is ideal for control systems engineers

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