

Optimal Control An Introduction

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geared toward advanced undergraduate and graduate engineering students this text introduces the theory and applications of optimal control it serves as a bridge to the technical literature enabling students to evaluate the implications of theoretical control work and to judge the merits of papers on the subject rather than presenting an exhaustive treatise optimal control offers a detailed introduction that fosters careful thinking and disciplined intuition it develops the basic mathematical background with a coherent formulation of the control problem and discussions of the necessary conditions for optimality based on the maximum principle of pontryagin in depth examinations cover applications of the theory to minimum time minimum fuel and to quadratic criteria problems the structure properties and engineering realizations of several optimal feedback control systems also receive attention special features include numerous specific problems carried through to engineering realization in block diagram form the text treats almost all current examples of control problems that permit analytic solutions and its unified approach makes frequent use of geometric ideas to encourage students intuition

the 3rd edition strikes a nice balance between mathematical rigor and engineering oriented applications helping students to understand the mathematical and engineering aspects of

control theory the book makes effective use of the tools provided by matlab r and includes material about using the tools provided by the python r programming language in the design and analysis of control systems without allowing the computer based tools to substitute for knowledge of control theory the examples in the text are carefully designed to develop the student s intuition in both mathematics and engineering with over 90 solved homework problems and about 200 figures this invaluable title will benefit junior and senior level university students in engineering

upper level undergraduate text introduces aspects of optimal control theory dynamic programming pontryagin s minimum principle and numerical techniques for trajectory optimization numerous figures tables solution guide available upon request 1970 edition

this significantly revised edition presents a broad introduction to control systems and balances new modern methods with the more classical it is an excellent text for use as a first course in control systems by undergraduate students in all branches of engineering and applied mathematics the book contains a comprehensive coverage of automatic control integrating digital and computer control techniques and their implementations the practical issues and problems in control system design the three term pid controller the most widely used controller in industry today numerous in chapter worked examples and end of chapter exercises this second edition also includes an introductory guide to some more recent developments namely fuzzy logic control and neural networks

the text is written from the engineer s point of view to explain the basic oncepts involved in feedback control theory the material in the text has been organized for gradual and sequential development of control theory starting with a statement of the task of a control engineer at the very outset the book is tended for an introductory undergraduate course in control systems for engineering students this text presents a comprehensive analysis and design of continuous time control systems and includes more than introductory material for discrete systems with adequate guidelines to extend the results derived in connection continuous time systems the prerequisite for the reader is some elementary owledge of differential equations vector matrix analysis and mechanics transfer function and state variable models of typical components and subsystems have been derived in the appendix at the end of the book most of the materials including solved and unsolved problems presented in the book have been class tested in senior undergraduates and first year graduate el courses in the field of control systems at the electronics and telecommunication engineering department jadavpur university matlab is the most widely used cad software package in universities throughout the world some representative matlab scripts used for solving problems are cluded at the end of each chapter the detailed design steps of fuzzy logic based controller using simulink and matlab has been provided in the book to give the student a head start in this emerging discipline a chapter has been included to deal with nonlinear components and their analysis g matlab and simulink through user defined s functions finally a chapter has been included to deal with the implementation of digital controllers on finite bit computer to bring out the problems associated with digital trollers in view of extensive use of matlab for rapid verification of controller designs some notes for using matlab script m files and function m files are included at the end of the book

this is the ebook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book for undergraduate courses in control theory at the junior or senior level introduction to feedback control first edition updates classical control theory by integrating modern optimal and robust control theory using both classical and modern computational tools this text is ideal for anyone looking for an up to date book on feedback control although there are many textbooks on this subject authors li qiu and kemin zhou provide a contemporary view of control theory that includes the

development of modern optimal and robust control theory over the past 30 years a significant portion of well known classical control theory is maintained but with consideration of recent developments and available modern computational tools

this monograph is an introduction to optimal control theory for systems governed by vector ordinary differential equations it is not intended as a state of the art handbook for researchers we have tried to keep two types of reader in mind 1 mathematicians graduate students and advanced undergraduates in mathematics who want a concise introduction to a field which contains nontrivial interesting applications of mathematics for example weak convergence convexity and the theory of ordinary differential equations 2 economists applied scientists and engineers who want to understand some of the mathematical foundations of optimal control theory in general we have emphasized motivation and explanation avoiding the definition axiom theorem proof approach we make use of a large number of examples especially one simple canonical example which we carry through the entire book in proving theorems we often just prove the simplest case then state the more general results which can be proved many of the more difficult topics are discussed in the notes sections at the end of chapters and several major proofs are in the appendices we feel that a solid understanding of basic facts is best attained by at first avoiding excessive generality we have not tried to give an exhaustive list of references preferring to refer the reader to existing books or papers with extensive bibliographies references are given by author s name and the year of publication e g waltman 1974

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