

Digital Control System Analysis and Design

Third Edition

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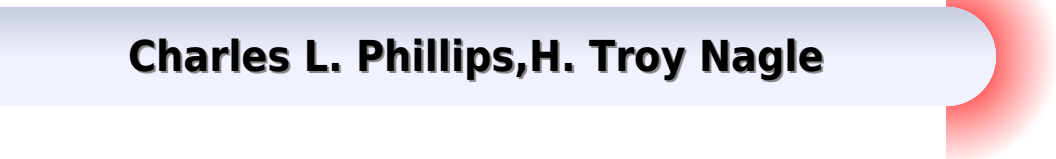
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Charles L. Phillips, H. Troy Nagle



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behavior of analog PID controllers One needs to implement specific and high performance model based control techniques developed for computer controlled systems techniques that have been extensively tested in practice In this context identification of a plant dynamic model from data is a fundamental step in the design of the control system The book takes into account the fact that the association of books with software and on line material is radically changing the teaching methods of the control discipline Despite its interactive character computer aided control design software requires the understanding of a number of concepts in order to be used efficiently The use of software for illustrating the various concepts and algorithms helps understanding and rapidly gives a feeling of the various phenomena

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topics required for a one semester senior graduate class the text includes some advanced material to make it suitable for an introductory graduate level class or for two quarters at the senior graduate level Examples of optional topics are state space methods which may receive brief coverage in a one semester course and nonlinear discrete time systems Minimal Mathematics PrerequisitesThe mathematics background required for understanding most of the book is based on what can be reasonably expected from the average electrical chemical or mechanical engineering senior This background includes three semesters of calculus differential equations and basic linear algebra Some texts on digital control require more mathematical maturity and are therefore beyond the reach of the typical senior

Solutions Manual for Optimal Control Systems Laurie Kelly,2004-02 *Digital Control Systems* Anastasia Veloni,Nikolaos Miridakis,2017-08-07 The objective of this book is to provide a collection of solved problems on control systems with an emphasis on practical problems System functionality is described the modeling process is explained the problem solution is introduced and the derived results are discussed Each chapter ends with a discussion on applying MATLAB LabVIEW and or Comprehensive Control to the previously introduced concepts The aim of the book is to help an average reader understand the concepts of control systems through problems and applications The solutions are based directly on math formulas given in extensive tables throughout the text *Digital Control Engineering* M. Gopal,1988 Digital Control of Dynamic Systems Chen-Fang Chang,Gene F. Franklin,J. David Powell,Michael L. Workman,1998-03-01 **Introduction to Digital Control Systems** Hugh F. VanLandingham,1985 *Solutions Manual to Accompany Modern Control Systems* Richard C. Dorf,1986

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