

Digital Control System Analysis and Design

Fourth Edition

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Systems Benjamin C. Kuo,1997-06-01 **Analog and Digital Control System Design** Chi-Tsong Chen,2006-02-24 This text's contemporary approach focuses on the concepts of linear control systems rather than computational mechanics. Straightforward coverage includes an integrated treatment of both classical and modern control system methods. The text emphasizes design with discussions of problem formulation, design criteria, physical constraints, several design methods and implementation of compensators. Discussions of topics not found in other texts such as pole placement, model matching and robust tracking add to the text's cutting edge presentation. Students will appreciate the applications and discussions of practical aspects including the leading problem in developing block diagrams, noise disturbances and plant perturbations. State feedback and state estimators are designed using state variable equations and transfer functions offering a comparison of the two approaches. The incorporation of MATLAB throughout the text helps students to avoid time consuming computation and concentrate on control system design and analysis Discrete-time Control Systems Katsuhiko Ogata,1987

Digital Control Engineering M. Sami Fadali, Antonio Visioli, 2019-12-01 Digital controllers are part of nearly all modern personal, industrial and transportation systems. Every senior or graduate student of electrical, chemical or mechanical engineering should therefore be familiar with the basic theory of digital controllers. This new text covers the fundamental principles and applications of digital control engineering with emphasis on engineering design. Fadali and Visioli cover analysis and design of digitally controlled systems and describe applications of digital control in a wide range of fields. With worked examples and Matlab applications in every chapter and many end of chapter assignments, this text provides both theory and practice for those coming to digital control engineering for the first time, whether as a student or practicing engineer. This new edition covers new topics such as Model Predictive Control and Linear Matrix Inequalities. To engage students, it has more illustrations and simple examples; the mathematical notation is reduced where possible and it also includes intermediate mathematical steps in derivations. Companion website features resources for instructors including Powerpoint slides and solutions. Extensive use of CAD Packages Matlab and Simulink sections at the end of each chapter show how to implement concepts from the chapter. Contains review material to aid understanding of digital control analysis and design. Includes some advanced material to make it suitable for an introductory graduate level class or for two quarters at the senior graduate level. The mathematics background required for understanding most of the book is based on what can

bereasonably expected from the average electrical chemical or mechanical engineering senior
Dynamic Systems Chen-Fang Chang, Gene F. Franklin, J. David Powell, Michael L. Workman, 1998-03-01
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Digital Control of Control Systems Naresh K Sinha, 2008 An Introduction To Control Systems This Book Provides The Reader With The Basic Concepts Of Control Theory As Developed Over The Years In Both The Frequency Domain And The Time Domain The Opening Chapters Of The Book Present A Unified Treatment Of Modelling Of Dynamic Systems The Classical Material On The Performance Of Feedback Systems Based On The Transfer Function Approach And The Stability Of Linear Systems Further Various Types Of Frequency Response Plots And The Compensation Of Control Systems Have Been Presented In Particular The Trial And Error Approach To The Design Of Lead Compensators As Found In Most Textbooks Has Been Replaced By A Direct Method Developed In The Late 1970S Moreover The Design Of Pole Placement Compensators Using Transfer Functions The Counterpart Of The Combined Observer And State Feedback Controller Has Been Included For The First Time In A Book Appropriate For Undergraduate And Practicing Engineers In This Third Edition The Scheme For Pole Placement Compensation Has Been Made Consistent With That In Chapter 12 The Chapter On Digital Control A Rapidly Developing And Popular Area Has Been Dealt With In An Up To Date Manner This Book Is An Attempt To Aid The Student Remove The Drudgery Out Of Numerical Computations Along With Numerous Worked Examples And Drill Problems With Answers To Help The Student In Mastering The Subject

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