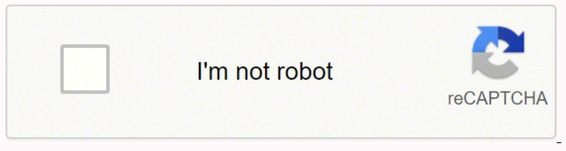

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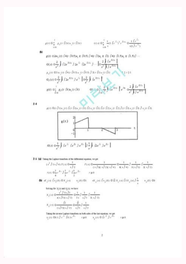

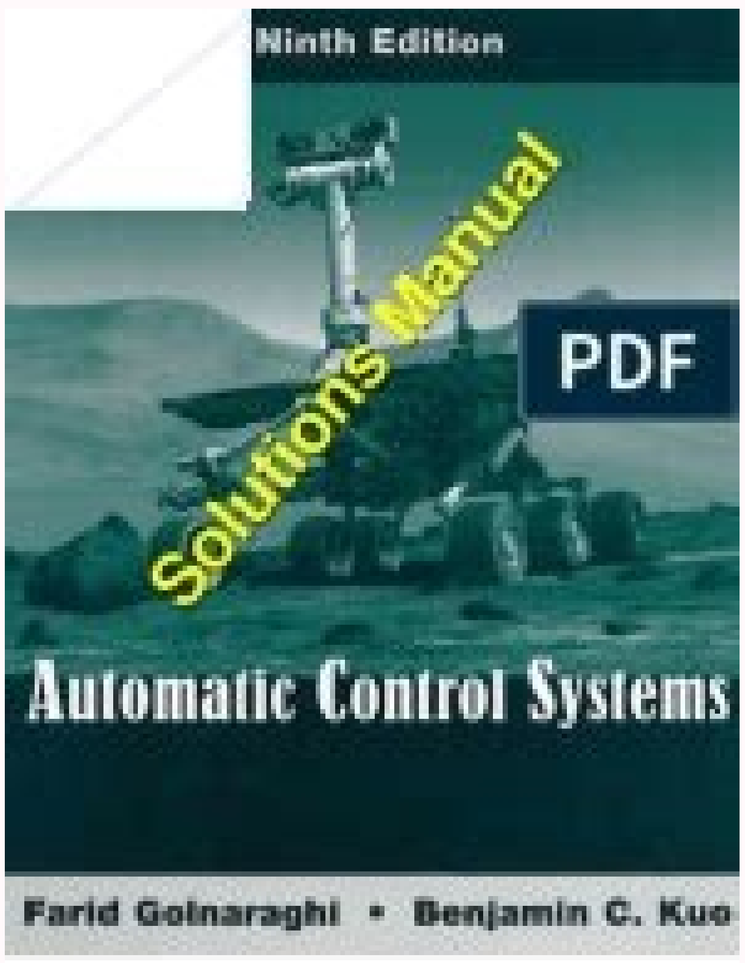

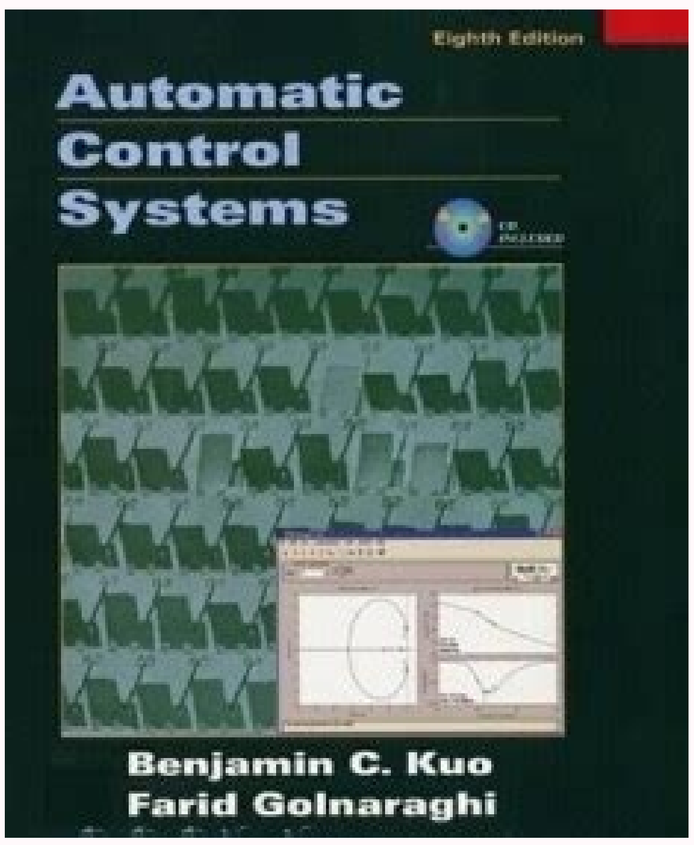

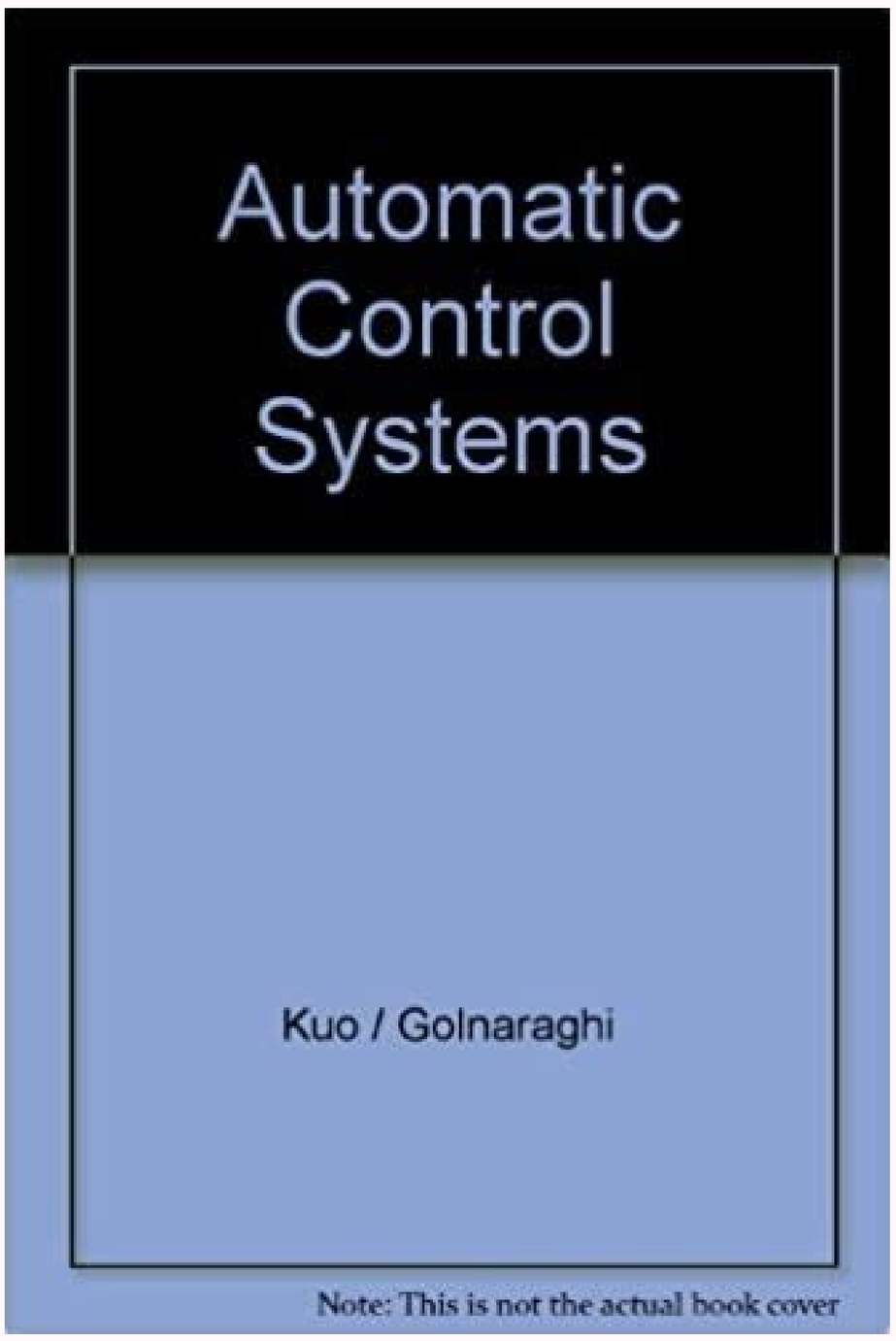

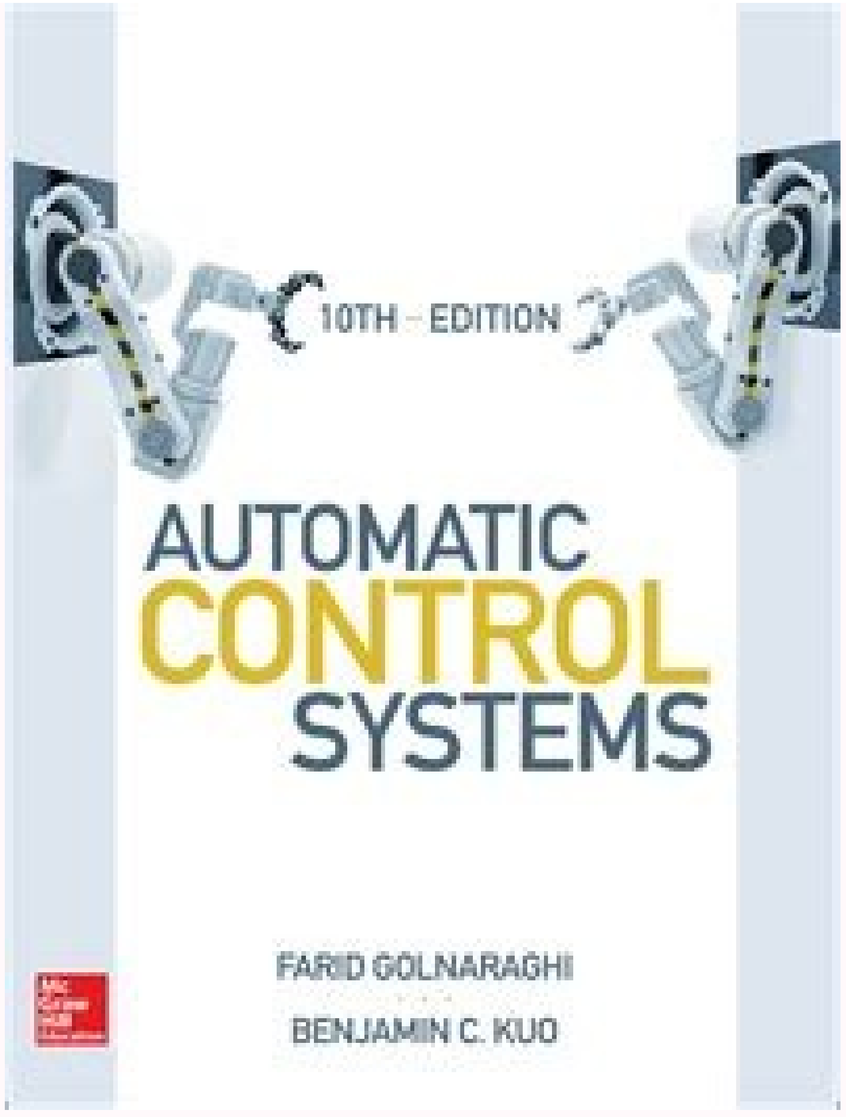

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A complete toolkit for teaching, learning and understanding the essential concepts of automated control systems and ³ editing, automated control systems delivered up-to-date, real-world coverage designed to introduce students to the fundamentals The Edition Introduces the concept of Control ³, which includes two classes of experiments: SIMLab (model-based simulation) and LEGOLab (physical experiments using LEGOÂ® robÃ's). 1-5-2 Feedback Effect on Stability 1-5-3 Feedback Effect on External or RuH 1-6 Types of Feedback Control Systems 1-7 Linear Versus Non-Linear Control Systems 1-8 Time Invariant Systems versus Time Variable 1-9 Data Control Systems 1-10 Discrete Data Range 1-11 Case Study: Avoid Smart Obstacles Summarized CAPTION2 Modeling of dynamical systems 2-1 Modeling of simple mechanical systems 2-1-1 Translational movement 2-1-2 Rotational movement 2-1-3 Conversions between translational and rotational movements 2-1-4 Gear trains 2-1-5 Backtracking and dead zone (non-linear characteristics) 2-2 Introduction modeling systems elÃ ©tricos simple-2-1 Modeling of Elements ElÃ ©tricos Passives 2-2-2 Modeling of Networks ElÃ ©tricas 2-3 Introduction Modeling of Thermal and Fluid Systems 2-3-1 Elementary Heat Transfer Properties 2-3-2 Elementary Fluid System Properties 2-4 Linearization of Non-Linear Systems 2-4-1 Linearization Using Taylor Health Care: 2-5 Analogies 2-6 Introduction to the LEGO MINDSTORMS NXT Modelling ÃÂ´mechanical 2-7 Summary of References Problems CHAPTER 3 Solution of Differential Equations of Dynamics Systems 3-1 Introduction to Differential Equations 3-1-1 Introduction to Differential Equations Ordinary Linear Differential Equations 3-1-2 Nonlinear Differential Equations 3-2 Laplace Transform 3-2-1 Definition of Laplace Transform 3-2-2 Important Theorems of Laplace Transform 3-2-3 Transfer function 3-2-4 Characteristic equation 3-2-5 Analytical function 3-2 -6 Poles of a Function 3-2-7 Zeros of a Function 3-2-8 Complex Conjugated Poles and Zeros 3-2-9 Final Value Theorem 3-3 Transformation Reverse Laplace by Partial Breast Expansion 3-3-1 Partial Breast Expansion 3-4 Application of Laplace Transformation Solution of Linear Ordinary Differential Equations 3-4-1 First Order Prototype System 3-4-2 Second Order Prototype System 3-4-3 Second Order Prototype System 3-4-3 Second-Order Prototype System 3Â Ã´Final Remarks 3-5 Impulse Response and Transfer Functions 3-5-1 Linear Systems Impulse Response 3-5-2 Time Response Using the Impulse Response Transfer Function 3-5-3 (Systems Single Input, Single Output) 3-6 Systems of First Order Differential Equations: Equations of State 3-6-1 Definition of State Variables 3-6-2 The Output Equation 3-7 Solution of the State Equation Linear Homogenous 3-7-1 Transfer Functions (Multivariable Systems) 3-7-2 Equation Characteristic of Equations of State 3-7-3 EquationsTransfer Function Status es 3-8 Case Studies with MATLAB 3-9 Linearization Revisited State-Space Approach 3-10 References Summary Problems CHAPTER 4 Block Diagrams and Signal Flow Diagrams 4-1 Block Diagrams Modelling of Typical Elements of Block Diagrams in Control Systems 4-1-2 Relationship between Mathematical Equations and Diagrams Block Diagram 4-1-3 Reduction Block Diagram 4-1-4 Block Diagrams Multi-entry: Special CasesÂ´Systems with 4-1-5 Disturbance Block Diagrams and Transfer Functions of Multivariable Systems Signal-Flow Graphs 4-2-1 SFG Algebra 4-2-2 Definitions of SFG Terms 4-2-3 Gain Formula for SFG 4-2-4 Application of the Gain Formula between Output Nodes and Noninput Nodes 4-2-5 Simplified Gain Formula 4-3 State Diagram 4-3-1 From Differential Equations to State Diagrams 4-3-2 From State Diagrams to Transfer Functions 4-3-3 From State Diagrams to State and Output Equations 4-4 Case Studies 4-5 MATLAB Tools 4-6 Summary References Problems CHAPTER 5 Stability of Linear Control Systems 5-1 Introduction to Stability 5-2 Methods of Determining Stability 5-3 Routh-Hurwitz Criterion 5-3-1 Routh¢ÃÂÂs Tabulation 5-3-2 Special Cases When Routh¢ÃÂÂs Tabulation Terminates Prematurely 5-4 MATLAB Tools and Case Studies 5-5 Summary References Problems CHAPTER 6 Important Components of Feedback Control Systems 6-1 Modeling of Active Electrical Elements: Operational Amplifiers 6-1-1 The Ideal Op-Amp 6-1-2 Sums and Differences 6-1-3 First-Order Op-Amp Configurations 6-2 Sensors and Encoders in Control Systems 6-2-1 Potentiometer 6-2-2 Tachometers 6-2-3 Incremental Encoder 6-3 DC Motors in Control Systems 6-3-1 Basic Operational Principles of DC Motors 6-3-2 Basic Classifications of PM DC Motors 6-3-3 Surface-Wound DC Motors 6-3-4 Moving-Coil DC Motors 6-3-5 Brushless DC Motors 6-3-6 Mathematical Modeling of PM DC Motors 6-3-7 Relation between Ki and Kb 6-4 Speed and Position Control of a DC Motor 6-4-1 Speed Response and the Effects of Inductance and Disturbance: Open-Loop Response 6-4-2 Speed Control of DC Motors: Closed-Loop Response 6-4-3 Position Control 6-5 Case Studies: Practical Examples 6-6 The Control Lab: Introduction to LEGO MINDSTORMS NXT MotorÇÃÂÂModeling and Characterization 6-6-1 NXT Motor 6-6-2 Electrical Characteristics 6-6-3 Mechanical Characteristics 6-6-4 Speed Response and Model Verification 6-7 Summary References Problems CHAPTER 7 Time-Domain Performance of Control Systems 7-1 Time Response of Continuous-Data INTRODUCTION 7-2 Unique test signals to evaluate the time-response performance of control systems 7-3 The response of the unit step and the specification of the timeSense µ ³ ³ ³ ¼ 7-4 Time response of a prot Alternatively, as a supplemental learning tool, students can take the equipment home and learn at their own ³.This new edition continues the Translation of excellence with: â â¬ Â¢ â ³ ³ ³ µ âMore than a handful of solved examples âTM Headings 4 to 11 presenting material directly related to the subject of control - 10 online Appendices, including the theory of the elementary matrix and Algebra, laboratory The solution manual 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These experiments are intended to supplement or replace, the experimental exposure of students in a traditional degree control course and will allow these students to do their work within the MatlabÂ® and SimulinkÂ® environment, even at home. Pref Count Chapter 1 Introduction to Control Systems 1-1 Basic Components of a Control System 1-2 Examples of Control System Applications 1-2-1 Systems Intelligent 1-2-2 Direction control of a car 1-2-3 – Speed control of a car 1-2-4 Sun-tracking control Collectors 1-3 Open Loop Control Systems (Nonfeedback Systems) 1-4 Closed Loop Control Systems (feedback control systems) 1-5 What is feedback and what are your effects?

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