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Nota di contenuto	Intro -- Preface -- Acknowledgements -- Contents -- About the Author -- 1 Control Systems Modelling and Their Representation -- 1.1 Introduction -- 1.2 Basic Concepts and Terminologies -- 1.2.1 System -- 1.2.2 Control System -- 1.2.3 Variables -- 1.2.4 Input -- 1.2.5 Output -- 1.2.6 System Parameters -- 1.2.7 Plant or Process -- 1.2.8 Automation -- 1.2.9 Servomechanism -- 1.2.10 Regulator System -- 1.3 Concept of Feedback-Open Loop and Closed Loop Systems -- 1.3.1 Open Loop System -- 1.3.2 Closed Loop or Feedback System -- 1.4 Comparison of Open Loop and Closed Loop Systems -- 1.4.1 Open Loop Systems -- 1.4.2 Closed Loop System -- 1.4.3 Effects of Feedback -- 1.5 Examples of Closed Loop System -- 1.5.1 Automobile Steering Control System -- 1.5.2 Regulator System -- 1.5.3 Liquid Level System -- 1.5.4 Temperature Control System -- 1.5.5 Position Control System (Servomechanism) -- 1.5.6 Computer Controlled System -- 1.6 System Classification -- 1.7 The Concept of Transfer Function -- 1.7.1 Poles and Zeros of the Transfer Function -- 1.7.2 Complex s-Plane and the Locations of Poles and Zeros -- 1.7.3 Sinusoidal, Minimum Phase, Non-minimum Phase and All Pass Transfer Functions -- 1.8 System Representation in Simple Block Diagram -- 1.9 Transfer Function Model of Electrical Network -- 1.10 Transfer Function Model of Mechanical Systems -- 1.11 Transfer Function Model

for Mechanical Translational System -- 1.12 Transfer Function Model for Mechanical Rotational System -- 1.13 Transfer Function Model of Electro-Mechanical Systems -- 1.14 Transfer Function Model of D.C. Motor -- 1.14.1 Transfer Function of Field Controlled D.C. Motor (No Load) -- 1.14.2 Transfer Function of Armature Controlled D.C. Motor -- 1.14.3 Transfer Function of D.C. Generator (On No Load) -- 1.14.4 Performance Comparison of Armature and Field Controlled D.C. Motors. 1.15 Two Phase A.C. Servomotor -- 1.16 A Pair of Synchros -- 1.16.1 Synchro Generator -- 1.16.2 Control Transformer -- 1.17 Electrical Analogy -- 1.17.1 Force-Voltage Analogy -- 1.17.2 Force-Current Analogy -- 1.18 Block Diagram Reduction Technique -- 1.18.1 Component Parts of Block Diagram -- 1.18.2 Block Diagram Reduction Rule -- 1.18.3 Block Diagram Reduction for Multiple Inputs -- 1.18.4 Signal Flow Graph -- 1.18.5 Signal Flow Graph Algebra -- 1.18.6 Definitions of SFG Terminologies -- 1.18.7 Application of the Gain Formula Between Output Nodes and Non-input Nodes -- 1.18.8 Applications of the Gain Formula to Block Diagrams -- 1.18.9 Signal Flow Graph for the Electrical Network -- 2 Time Response Analysis -- 2.1 Introduction -- 2.2 First Order Continuous Time System -- 2.2.1 System Modelling -- 2.2.2 Time Response of First Order System -- 2.2.3 Time Domain Specifications -- 2.3 Second Order System Modelling -- 2.4 Time Response of a Second Order System -- 2.4.1 Impulse Response -- 2.4.2 Step Response of a Second Order System -- 2.4.3 Time Domain Specifications of a Second Order System -- 2.5 Steady State Error -- 2.5.1 Type of the System -- 2.5.2 Steady State Error Using Static Error Constants -- 2.5.3 Steady State Error for Non-unity Feedback Systems -- 2.5.4 Steady State Error for Disturbances -- 2.5.5 The Generalized Error Constants -- 2.5.6 Steady State Error When Closed Loop T.F. is Given -- 2.6 Performance Enhancement By Using Controllers -- 2.6.1 Rate Controller or Tachometer Feedback Controller -- 2.6.2 Proportional Plus Integral Plus Derivative (Three Term Controllers) Controllers -- 2.6.3 Integral or Reset Controller -- 2.6.4 Proportional Plus Integral (PI) Controller -- 2.6.5 Proportional + Derivative (PD) Controller -- 2.6.6 Proportional + Integral + Derivative (PID) Controller -- 3 Frequency Response Analysis -- 3.1 Introduction. 3.2 Obtaining Steady State Output to Sinusoidal Input -- 3.3 Plotting Frequency Response -- 3.4 Polar Plot (Nyquist Plot) -- 3.4.1 General Shape of Polar Plot and Type and Order of the System -- 3.4.2 Polar Plot of Non-minimum Phase Transfer Function -- 3.4.3 Polar Plot with Transportation Lag (Time Delay) -- 3.4.4 Polar Plot of Prototype Second Order System -- 3.5 Correlation Between Transient Response and Frequency Response -- 3.6 Bandwidth of a Second Order System -- 3.6.1 Cut off Frequency and Cut Off Rate -- 3.7 Bode Plots -- 3.7.1 Bode Asymptotic Magnitude Plot -- 3.7.2 Bode Asymptotic Phase Angle Plots -- 3.8 Step by Step Procedure to Draw Bode Magnitude Plot -- 3.8.1 Transfer Function from Bode Plot -- 3.9 Log Magnitude Versus Phase Plot (Nichols Plot) -- 3.10 Frequency Domain Specifications -- 3.10.1 Phase Margin and Gain Margin via Nyquist (Polar) Diagram -- 3.10.2 Phase Margin and Gain Margin via Bode Plots -- 3.10.3 Phase Margin and Gain Margin Using MATLAB -- 3.10.4 Phase Margin and Gain Margin via Log-Magnitude-Phase Plot -- 3.11 Determining Closed Loop Frequency Response from Open ... -- 3.11.1 Constant M Circles -- 3.11.2 Constant N Circles -- 3.11.3 The Nichols Chart -- 3.11.4 Nichols Chart from Constant M and Constant N Circles -- 4 Stability Analysis of Linear Control System -- 4.1 Introduction -- 4.2 The Concept of Stability -- 4.2.1 Asymptotic (Internal) Stability -- 4.2.2 Marginal (Neutral) Stability -- 4.2.3 Bounded Input Bounded Output (BIBO) (External) Stability -- 4.2.4 Relative Stability -- 4.2.5 BIBO

Stability via Impulse Response Function -- 4.2.6 BIBO Stability and the Characteristic Roots -- 4.2.7 Relationship Between BIBO and Asymptotic Stability -- 4.3 Routh-Hurwitz Criterion -- 4.3.1 Routh-Hurwitz Criterion to Determine Absolute Stability -- 4.3.2 Routh-Hurwitz Criterion: Special Cases.

4.3.3 Parameters Estimation via Routh-Hurwitz Stability Criterion -- 4.3.4 Relative Stability Using Routh-Hurwitz Stability Criterion -- 4.3.5 Routh's Test for System with Transportation Lag -- 4.4 Nyquist Stability Criterion -- 4.4.1 Concepts Used in Nyquist Stability Criterion -- 4.4.2 The Principle of the Argument-Cauchy's Theorem -- 4.4.3 The Nyquist Stability Criterion -- 5 Root Locus Method for Analysis -- 5.1 Introduction -- 5.1.1 Advantages of Root Locus Method -- 5.2 The Concept of Root Locus -- 5.3 Properties of the Root Loci (Rules of the Root Loci) -- 5.4 Procedure to Construct Root Locus -- 6 Design of Compensators -- 6.1 Introduction -- 6.2 Performance Criteria for Compensators -- 6.3 Time and Frequency Domain Approaches -- 6.4 Compensator Design in the Frequency Domain -- 6.4.1 Design of Lead Compensator -- 6.4.2 Design Procedure for Lead Compensator in the Frequency Domain -- 6.4.3 Lag Compensator -- 6.4.4 Lag-Lead Compensator -- 6.5 Compensator Design in the Time Domain -- 6.5.1 Design of Lead Compensator Using Root Locus -- 6.5.2 Design of Lag Compensator Using Root Locus -- 6.5.3 Design of Lag-Lead Compensator Using Root Locus -- 7 State Space Modelling and Analysis -- 7.1 Introduction -- 7.2 The State of a System and State Equation of Continuous Time System -- 7.3 Vector Matrix Differential Equation of Continuous Time System -- 7.3.1 State Equations for Mechanical Systems -- 7.3.2 State Equations for Electrical Circuits -- 7.4 State Equations from Transfer Function -- 7.4.1 General Case of Representation-Phase Variable or Controllable Canonical Form -- 7.4.2 General Case of Representation-Observable Canonical Form -- 7.5 Transfer Function of Continuous Time System from State Equations -- 7.6 Solution of State Equations -- 7.6.1 Laplace Transform Solution of State Equations -- 7.6.2 Time Domain Solution to State Equations. 7.6.3 Determination of eAt-The Cayley-Hamilton Theorem -- 7.7 Controllability of Linear Continuous Time System -- 7.7.1 State Controllability Condition -- 7.7.2 Output Controllability Condition -- 7.7.3 Controllability and Observability Tests in the Frequency Domain -- 7.8 Observability of Linear Continuous Time System -- 7.8.1 Observability Condition -- 7.9 State Equation of Discrete Time System -- 7.9.1 Discrete Time State Equation in Controllable Canonical Form -- 7.9.2 Observable Canonical Form Model -- 7.9.3 Diagonal Form (Parallel Form) Model -- 7.9.4 Solution of State Equation -- 7.10 Controllability and Observability of Discrete Time System -- 7.10.1 Controllability Condition for Discrete Time System -- 7.10.2 Observability Condition for Discrete Time System -- 7.11 Sampled Data System -- 7.11.1 Introduction -- 7.11.2 Advantages of Sampled Data Control Systems -- 7.11.3 Disadvantages -- 7.11.4 A Sampled Data Closed Loop Control System -- 7.11.5 Sampling Process -- 7.11.6 Sampled Data System Variables -- 7.11.7 Hold Devices -- 7.11.8 Signal Reconstruction Using Zero Order Hold Device -- 7.11.9 Transfer Function of a ZOH -- 7.11.10 The Sampling Theorem -- 7.12 MATAB Program -- 7.12.1 Conversion of State Space Model to Transfer Function Model and Vice Versa -- 7.12.2 Conversion of Transfer Function to State Model -- 7.12.3 To Write a Program to Obtain the STM -- 7.12.4 To Determine Controllability and Observability of the System -- Index.

disciplines. The book provides a comprehensive coverage of linear system theory. In this book, the concepts around each topic are well discussed with a full-length presentation of numerical examples. Each example is unique in its way, and it is graded sequentially. This book highlights simple methods for solving problems. Even though, the subject requires a very strong mathematical foundation, wherever possible, rigorous mathematics is simplified for a quick understanding of the basic concepts. The book also includes select numerical problems to test the capability of the students. Time and frequency domain approaches for the analysis and design of linear automatic control systems have been explained using state-space and transfer function models of physical systems. All the chapters include a short theoretical summary of the topic followed by exercises on solving complex problems using MATLAB commands. In addition, each chapter offers a large number of end-of-chapter homework problems. This second edition includes a new chapter on state-space modeling and analysis. Detailed conceptual coverage and pedagogical tools make this an ideal textbook for students and researchers enrolled in electrical engineering and related programs.
