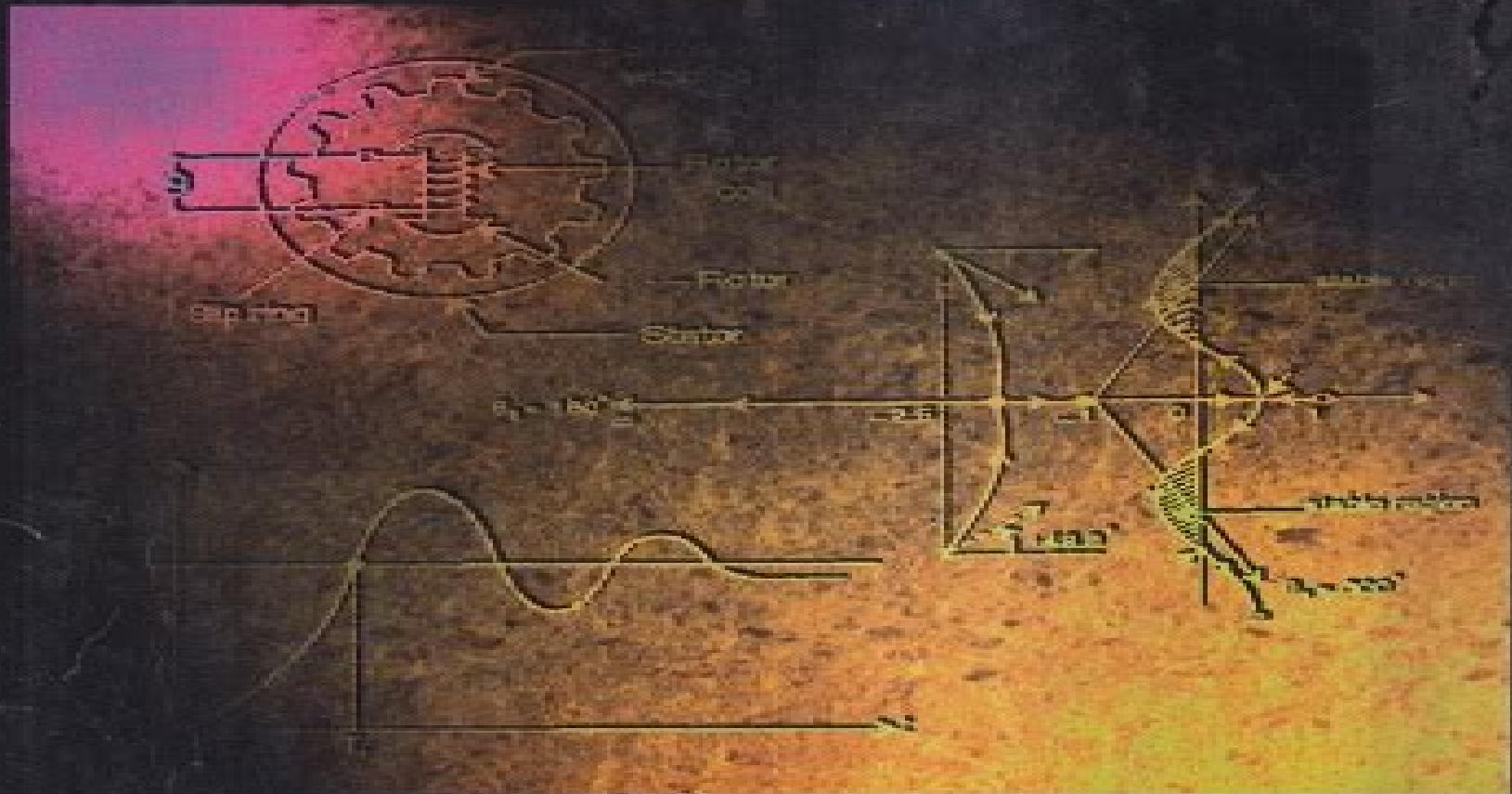


FEEDBACK CONTROL SYSTEMS

(With large number of solved examples & illustrations)



U. A. BAKSHI

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Feedback Control Systems By S C Goyal U A Bakshi

Mehdi Rahmani-Andebili



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Feedback Control Systems Uday A. Bakshi, 2009 Linear control systems Definitions elements of control system Open loop and closed loop control system Feedback feedforward control system Linear nonlinear control system Transfer function by block diagram reduction technique by signal flow graph analysis using Mason's gain formula Time domain analysis control system Steady state performance specifications Time domain analysis Transient response of first second order system For various test signals Steady state performance specifications Stability of control system Determination of stability of control system Routh Hurwitz criteria Root locus technique Frequency response of control system Co relation between time domain frequency domain specifications Bode plots Calculation of phase margin and gain margin Performance of lead and lag network in frequency domain analysis Mapping theorem Determination of stability using Nyquist's criterion State variable representation of control system SISO MIMO Conversion of state variable into transfer function vice versa Solution of state equation State transition matrix Control system components Error detectors Potentiometers Synchros Actuators Servomotors Tacho generators AC DC servomotors Stepper motors Transfer function of AC DC servosystems *Control System Engineering* Uday A. Bakshi, Varsha U. Bakshi, 2020-11-01 The book is written for an undergraduate course on the Feedback Control Systems It provides comprehensive explanation of theory and practice of control system engineering It elaborates various aspects of time domain and frequency domain analysis and design of control systems Each chapter starts with the background of the topic Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections Each chapter provides the detailed explanation of the topic practical examples and variety of solved problems The explanations are given using very simple and lucid language All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion The book starts with explaining the various types of control systems Then it explains how to obtain the mathematical models of various types of systems such as electrical mechanical thermal and liquid level systems Then the book includes good coverage of the block diagram and signal flow graph methods of representing the various systems and the reduction methods to obtain simple system from the analysis point of view The book further illustrates the steady state and transient analysis of control systems The book covers the fundamental knowledge of controllers used in practice to optimize the performance of the systems The book emphasizes the detailed analysis of second order systems as these systems are common in practice and higher order systems can be approximated as second order systems The book teaches the concept of stability and time domain stability analysis using Routh Hurwitz method and root locus method It further explains the fundamentals of frequency domain analysis of the systems including co relation between time domain and frequency domain The book gives very simple techniques for stability analysis of the systems in the frequency domain using Bode plot Polar plot and Nyquist plot methods It also explores the concepts of compensation and design of the control systems in time domain and frequency domain The classical approach

loses the importance of initial conditions in the systems Thus the book provides the detailed explanation of modern approach of analysis which is the state variable analysis of the systems including methods of finding the state transition matrix solution of state equation and the concepts of controllability and observability The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the design and analysis of the control systems in the students The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting

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Open loop and closed loop systems Servomechanism Basic structure of a feedback control system Dynamic Models and Responses Dynamic model of an RLC network State variable model Impulse response model Transfer function model Standard test disturbance signals and their models Transfer function model and dynamic response of a second order electrical system Control System Components Basic units of feedback control system Reduction of system block diagrams Signal flow graph Mason's gain rule Block diagram reduction using Mason's gain rule Operational amplifier used as an error detector Servo potentiometer DC and AC servomotors Tachogenerator Stepper motor Synchros Block diagram model of a typical control system using simplified sub system Transfer function blocks Feedback Control System Characteristics Stability Sensitivity Disturbance rejection Steady state accuracy Transient and steady state responses of a second order system Effect of additional zeros and poles Desired closed loop pole locations and dominant poles Steady state error constants System type numbers and error compensation System Stability Analysis and Compensator Design System stability bounds Routh stability criterion Relative stability and range of stability Root locus concept System characteristic equation Plotting root loci Design of cascade lag lead compensation Minor loop rate feedback compensation Nyquist Criterion and Stability Margins Nyquist stability criteria Nyquist plot Gain and phase margins Bode plot of magnitude and phase and determination of stability margins Feedback System Performance Performance specifications in frequency domain Correlation between frequency domain and time domain specifications Constant M circles Nichols chart Stability margins from sensitivity function Design of cascade lag lead compensation using Bode plot Minor loop rate feedback compensation

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Feedback Control Systems Analysis and Design Mehdi Rahmani-Andebili, 2022-03-18 This study guide is designed for students taking courses in feedback control systems analysis and design The textbook includes examples questions and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations

of concepts this hands on guide will improve student s problem solving skills and basic and advanced understanding of the topics covered in these courses

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Introduction to Feedback Control Systems Pericles Emanuel,Edward Leff,1976

Feedback Control Theory John C. Doyle,Bruce A. Francis,Allen R. Tannenbaum,2013-04-09 An excellent introduction to feedback control system design this book offers a theoretical approach that captures the essential issues and can be applied to a wide range of practical problems Its explorations of recent developments in the field emphasize the relationship of new procedures to classical control theory with a focus on single input and output systems that keeps concepts accessible to students with limited backgrounds The text is geared toward a single semester senior course or a graduate level class for students of electrical engineering The opening chapters constitute a basic treatment of feedback design Topics include a detailed formulation of the control design program the fundamental issue of performance stability robustness tradeoff and the graphical design technique of loopshaping Subsequent chapters extend the discussion of the loopshaping technique and connect it with notions of optimality Concluding chapters examine controller design via optimization offering a mathematical approach that is useful for multivariable systems

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demand among practising engineers for a good introduction to control systems Feedback and Control Systems Sidney A. Davis, H. Lowe, 1974 **Feedback Control System Analysis and Synthesis** John Joachim D'Azzo, Constantine H. Houps, 1960 **Feedback Control Systems** John Vande Vegte, 1990 Feedback and Control Systems Sidney Davis, 1984-03-01 Feedback Control Konstanty Jan Kurman, 1984 **Feedback Control Systems** Jan van de Vegte, 1986
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Reviewing **Feedback Control Systems By S C Goyal U A Bakshi**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Feedback Control Systems By S C Goyal U A Bakshi**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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