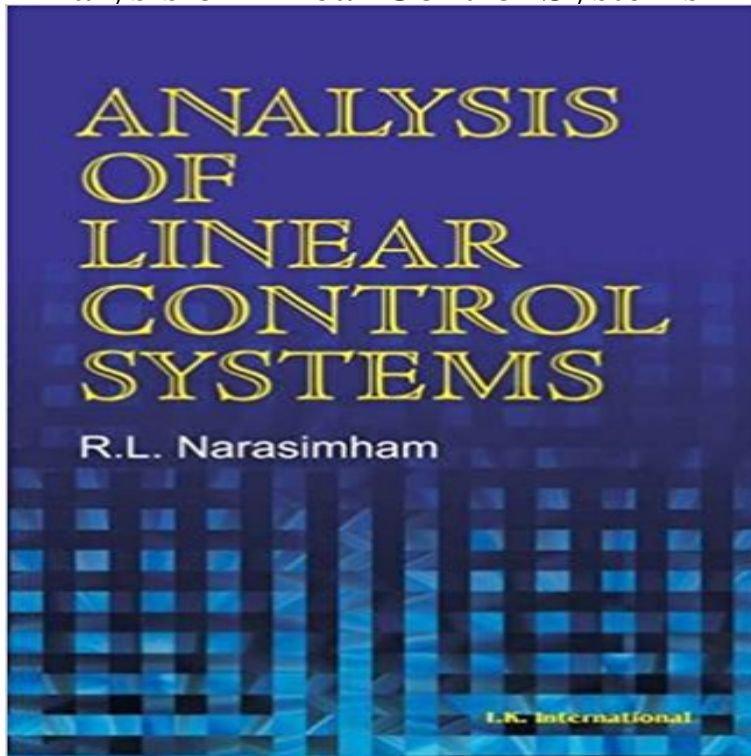


Analysis of Linear Control Systems



This book provides an up-to-date information on a number of important topics in control systems engineering. Salient Features: Introduce P-I-D controllers in time-response analysis of control systems including steady-state error and static error constants. Emphasis on control system components including, sensors, amplidyne, stepper motor including magnetic amplifiers. Emphasis the frequency domain design methods using Root Locus and Nyquist / Bode / Nicholas Plots. Designed stability of control system is a new direction which is not found in any other similar books. State variable representation of dynamic system are presented with linear algebra concepts. Design and compensation techniques dealt largely on Root Locus lag and Bode Plot lag compensation techniques. The book includes Major historical landmarks in the development of the area of control systems engineering. Algebraic solution through laplace transform of linear differential equations which describe the operation of control systems. Information concerning the basis or inherent operating characteristics of a system. Mathematical modeling of electromechanical system typical transducers and control systems. Stability analysis. Application of the root-locus method to the design of control systems. Frequency response analysis with all varieties of graphical plots including relative stability. State-space methods. Compensation techniques. This book will be useful for students of electrical / electronics / chemical / instrumentation disciplines and those appearing for AMIE, GATE, Civil services and Engineering services. A large number of solved and unsolved problems, review questions, MCQs are the prime feature of the book

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