



Control Systems

By K. Padmanabhan

I.K. International Publishing House Pvt. Ltd., 2010. Paperback. Book Condition: New. 16cm x 24cm. Control Systems is studied in the Electrical, Mechanical, Electronics, Chemical , Automobile and Aero Engineering disciplines. The basic principle stems from the feedback control. Systems which need to be controlled are varied and depend on the plant components and their transfer functions. There are Several methods to design and analysis control systems. In this book, the current theoretical background needed for the development of control systems is provided. Apart from the standard methods using Bode, Nyquist and root locus plots, state space techniques are also in use. Discrete time control has assumed more importance with the advent of digital signals. Fuzzy logic is also used in designing controllers, since Edward Mamdani (1971) developed this pioneering control of a steam engine using this technique. Most books on control systems do not deal with the associated components of a system. In this book, two chapters are devoted to the mostly used componenets in various control systems. Process control uses pneumatic controllers which are included in the book. Present university courses resort to the software known as Matlab® (Mathworks Inc.,) and even go to prescribe the same for the...



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