



Mathematical Control Theory: Deterministic Finite Dimensional Systems

By Eduardo D. Sontag

Springer. Paperback. Book Condition: New. Paperback. 396 pages. Dimensions: 6.1in. x 5.8in. x 0.2in. This textbook, based on courses taught at Rutgers University, introduces the core concepts and results of Control and System Theory in a self-contained and elementary fashion. Unique in its emphasis on foundational aspects, it is intended to be used in a rigorous, proof-oriented course to an audience consisting of advanced undergraduate or beginning graduate students. In developing the necessary techniques from scratch, the only background assumed is basic mathematics. An introductory chapter describes the main contents of the book in an intuitive and informal manner and gives the reader a valuable perspective of modern control theory. While linear systems are the focus of much of the presentation, most definitions and many results are given in a far more general framework. And though mostly elementary, the text includes illustrations of the applications in control of techniques from Lie groups, nonlinear analysis, commutative algebra, and other areas of pure mathematics. With an emphasis on a complete and totally self-contained presentation and containing an extensive (almost 400 entries) up-to-date bibliography and a detailed index, Mathematical Control Theory will be an excellent research reference source as well. The book covers...



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