

### Modern Control Systems: An Introduction (Engineering Series)

S. M. Tripathi



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Designed for a short course on control systems or as a review for the professional engineer, this book provides a lucid introduction to modern control systems topics. The five chapters, "State-Variable Analysis of Continuous-Time Systems," "Analysis of Discrete-Time Systems," "Stability Analysis of Non-Linear Systems," "Optimal Control," and "Adaptive Control" have been written to emphasize concepts and provide the basic mathematical derivations. Complete coverage of standard topics, e.g., eigenvalues, eigenvectors, the z-transform, Lyapunov's Method, controllability, observability, etc. are discussed. Numerous examples and exercises have also been included in the book for self-study. A CD-ROM with MATLAB applications and third-party simulations provides practical design techniques and observations of real control systems (please note, eBook version does not include the CD-ROM). The contents of the CD-ROM are available for download under the Samples tab.

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