

Linear Control System Analysis and Design: Conventional and Modern (Mcgraw Hill Series in Electrical and Computer Engineering)

John Joachim D'Azzo, Constantine H. Houpis

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This revised edition emphasizes undergraduate topics and the use of CAD programs, while providing a rigorous treatment of advanced topics and derivation techniques. Organized logically and for maximum teaching flexibility, it instills the basic principles of feedback control essential to all specialty areas of engineering. The first part of the book offers a comprehensive analysis of the fundamentals necessary for feedback control system analysis. The second part provides coverage of root locus, frequency response and state feedback techniques. The last part includes a large number of modern techniques that are useful to the systems design engineer, and also covers a broad spectrum of applicable advanced design methods, such as eigenvalue and eigenstructure assignments, high gain output feedback proportional plus integral controllers, and quantitative feedback theory (QFT). CAD technology is enhanced by the use of MATLAB problems throughout the text. Numerous worked examples, end-of-chapter problems and additional software options such as ICECAP-PC and TOTAL-PC are also offered. This comprehensive text is intended to be of use to both undergraduate and postgraduate students, self-educators and practising engineers.



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