



# Advanced Control Systems

*B. N. Sarkar*

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## Advanced Control Systems B. N. Sarkar

Designed as a textbook for undergraduate students pursuing courses in Electrical Engineering, Electrical and Electronics Engineering, Instrumentation and Control Engineering, and Electronics and Communication Engineering, this book explains the fundamental concepts and design principles of advanced control systems in an understandable manner.

The book deals with the various types of state space modelling, characteristic equations, eigenvalues and eigenvectors including the design of the linear systems applying the pole placement technique. It provides step-by-step solutions to state equations and discusses the stability analysis and design of nonlinear control systems applying the phase plane technique, Routh's criteria, Bode plot, Nyquist plot, Lyapunov's and function methods. Furthermore, it also introduces the sampled-data control systems explaining the  $z$ -transforms and inverse  $z$ -transforms.

The text is supported with a large number of illustrative examples and review questions to reinforce the student's understanding of the concepts.

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