

The book presents control engineering methodology based on mathematical fundamentals, stresses physical systems modeling and practical control system design. The book also includes the advanced topics on control engineering such as robust control, observer design, optimal control, Lyapunov's stability and digital control system. The book provides: clear exposition of the basic principle of control system design techniques using frequency and time domain method. an integrated design and analysis approach to real world engineering problems. a supplement for modeling and design process using MATLAB P, PI and PID controller design using state space model. Contents: Introduction / Responses of a control system / Frequency domain analysis / Controller and compensators / Modern control Engineering / Compensator Design and Robust control / Observer design and optimal control / Digital control system / Appendices: (A) Laplace transform / (B) Partial fractions / (C) A review of complex variables / (D) The principle of argument / (E) Summary of matrix theory / (F) Laplace and z transform / (G) MATLAB and control system toolbox / (H) Transfer function and signals / Bibliography / Index

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