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disciplines. The book provides a comprehensive coverage of linear system theory. In this book, the concepts around each topic are well discussed with a full-length presentation of numerical examples. Each example is unique in its way, and it is graded sequentially. This book highlights simple methods for solving problems. Even though, the subject requires a very strong mathematical foundation, wherever possible, rigorous mathematics is simplified for a quick understanding of the basic concepts. The book also includes select numerical problems to test the capability of the students. Time and frequency domain approaches for the analysis and design of linear automatic control systems have been explained using state-space and transfer function models of physical systems. All the chapters include a short theoretical summary of the topic followed by exercises on solving complex problems using MATLAB commands. In addition, each chapter offers a large number of end-of-chapter homework problems. This second edition includes a new chapter on state-space modeling and analysis. Detailed conceptual coverage and pedagogical tools make this an ideal textbook for students and researchers enrolled in electrical engineering and related programs.
