



# A Linear Systems Primer

*Panos J. Antsaklis*

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## **A Linear Systems Primer** Panos J. Antsaklis

Based on a streamlined presentation of the authors' successful work *Linear Systems*, this textbook provides an introduction to systems theory with an emphasis on control. Fundamental results and topics essential to linear systems theory are emphasized. Key features and topics: \* Notes, references, exercises, and a summary and highlights section at the end of each chapter. \* Comprehensive index and answers to selected exercises at the end of the book. \* Three core chapters guiding the reader to an excellent understanding of the dynamical behavior of systems. \* Detailed coverage of internal and external system descriptions, including state variable, impulse response and transfer function, polynomial matrix, and fractional representations. \* Explanation of stability, controllability, observability, and realizations with an emphasis on fundamental results. \* Detailed discussion of state-feedback, state-estimation, and eigenvalue assignment. \* Emphasis on time-invariant systems, both continuous- and discrete-time. For full coverage of time-variant systems, the reader is encouraged to refer to the companion book *Linear Systems*, which contains more detailed descriptions and additional material, including all the proofs of the results presented here. \* Solutions manual available to instructors upon adoption of the text. *A Linear Systems Primer* is geared towards first-year graduate and senior undergraduate students in a typical one-semester introductory course on systems and control. It may also serve as an excellent reference or self-study guide for electrical, mechanical, chemical, and aerospace engineers, applied mathematicians, and researchers working in control, communications, and signal processing. Also by the authors: *Linear Systems*, ISBN 978-0-8176-4434-5.



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