

Numerical Linear Algebra Techniques for Systems and Control



The growing importance of computers in engineering today necessitates a book that shows how to apply numerical linear algebra to solve fundamental computational problems in state-space-based control system analysis and design. With an extensive 35-page introduction and 21 pages of bibliography, this edited collection of key papers incorporates over 15 years of intensive research into the field of systems control, particularly modern numerical linear algebra and its basic principles. An overview of several related topics is given, including how to assess numerical stability and conditioning most effectively in numerical analysis, the most efficient ways to translate system and control ideas into numerically reliable algorithms, using condensed forms to check controllability and observability, the effect of model uncertainties on various properties of a given model, the key equations and contributions to modern control system design. Currently the only collection of practical papers covering the broad scope of numerical linear algebra in computer-aided control system design software, Numerical Linear Algebra Techniques for Systems and Control will interest engineers and mathematicians as well as others engaged in any aspect of control and feedback.

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University of Illinois at Urbana-C hampaign. **9780780304437: Numerical Linear Algebra Techniques for Systems** His other book, Numerical Methods for Linear Control Systems Design and Analysis, describes how sophisticated numerical linear algebra techniques can be **Numerical Linear Algebra Techniques for Large Scale - CiteSeerX** The purpose of Numerical Linear Algebra in Signals, Systems and Control is to scientific computing, and computational engineering methods, applications,