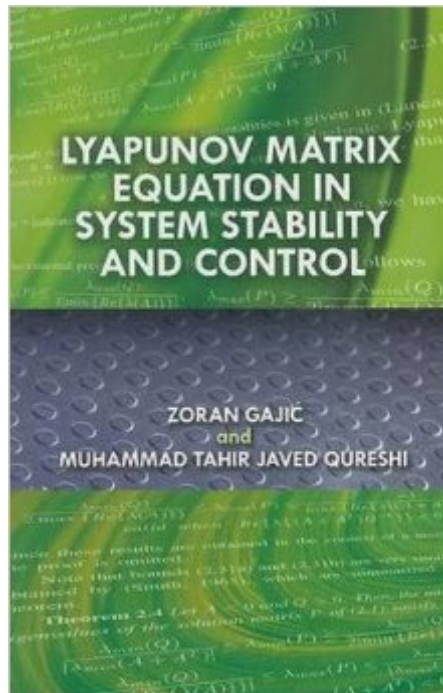


The book was found

# Lyapunov Matrix Equation In System Stability And Control (Dover Civil And Mechanical Engineering)



## Synopsis

This book provides solutions to many engineering and mathematical problems related to the Lyapunov matrix equation. Geared toward an audience of engineers, applied mathematicians, computer scientists, and graduate students, it explores issues of mathematical development and applications, making it equally practical for problem solving and research. Its comprehensive treatment features self-contained chapters for quick and precise reference. The authors offer a wide variety of techniques for solving and analyzing the algebraic, differential, and difference Lyapunov matrix equations of continuous-time and discrete-time systems. The matrix equations are considered in terms of three main categories: explicit solutions; approximate solutions characterized by different bounds, such as eigenvalue bounds, trace bounds, determinant bounds, and solution bounds; and numerical solutions suitable for computer calculations. Numerous examples of real-world systems appear throughout, illustrating the effectiveness of cited methods and algorithms.

## Book Information

Series: Dover Civil and Mechanical Engineering

Paperback: 272 pages

Publisher: Dover Publications (May 19, 2008)

Language: English

ISBN-10: 048646668X

ISBN-13: 978-0486466682

Product Dimensions: 5.6 x 0.5 x 8.4 inches

Shipping Weight: 9.9 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,779,291 in Books (See Top 100 in Books) #202 in Books > Science & Math > Physics > Chaos Theory #601 in Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Linear #3573 in Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry

[Download to continue reading...](#)

Lyapunov Matrix Equation in System Stability and Control (Dover Civil and Mechanical Engineering)  
Nonlinear Power Flow Control Design: Utilizing Exergy, Entropy, Static and Dynamic Stability, and Lyapunov Analysis (Understanding Complex Systems) Theory of Elastic Stability (Dover Civil and Mechanical Engineering) Vehicle Dynamics, Stability, and Control, Second Edition (Mechanical

Engineering) Fundamentals of Air Pollution Engineering (Dover Civil and Mechanical Engineering) Flow-Induced Vibrations: An Engineering Guide (Dover Civil and Mechanical Engineering) Code Check Plumbing & Mechanical 4th Edition: An Illustrated Guide to the Plumbing and Mechanical Codes (Code Check Plumbing & Mechanical: An Illustrated Guide) Shigley's Mechanical Engineering Design (McGraw-Hill Series in Mechanical Engineering) Mechanical Engineering Design (McGraw-Hill Mechanical Engineering) A Survey of Matrix Theory and Matrix Inequalities (Dover Books on Mathematics) Matrix Analysis of Structural Dynamics: Applications and Earthquake Engineering (Civil and Environmental Engineering) The Finite Element Method: Linear Static and Dynamic Finite Element Analysis (Dover Civil and Mechanical Engineering) Dynamics of Fluids in Porous Media (Dover Civil and Mechanical Engineering) Analytical Fracture Mechanics (Dover Civil and Mechanical Engineering) PE Mechanical Engineering: Mechanical Systems and Materials Practice Exam The Mechanical Design Process (Mcgraw-Hill Series in Mechanical Engineering) Fundamentals of Mechanical Vibrations: IBM PC 3.5 Version (Mcgraw Hill Series in Mechanical Engineering) The Essential Guide to the ACT Matrix: A Step-by-Step Approach to Using the ACT Matrix Model in Clinical Practice Matrix Structural Analysis (Pws-Kent Civil Engineering Series List) Practice Problems for the Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual, 14th Ed

[Dmca](#)