

TOPICS IN MATRIX ANALYSIS

ROGER A. HORN
AND
CHARLES R. JOHNSON

Topics in Matrix Analysis

By Roger A. Horn, Charles R. Johnson

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Building on the foundations of its predecessor volume, Matrix Analysis, this book treats in detail several topics with important applications and of special mathematical interest in matrix theory not included in the previous text. These topics include the field of values, stable matrices and inertia, singular values, matrix equations and Kronecker products, Hadamard products, and matrices and functions. The authors assume a background in elementary linear algebra and knowledge of rudimentary analytical concepts. The book should be welcomed by graduate students and researchers in a variety of mathematical fields both as an advanced text and as a modern reference work.

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Topics in Matrix Analysis By Roger A. Horn, Charles R. Johnson Bibliography

- Sales Rank: #750015 in Books
- Brand: Brand: Cambridge University Press
- Published on: 1994-06-24
- Original language: English
- Number of items: 1
- Dimensions: 9.02" h x 1.38" w x 6.02" l, 1.81 pounds
- Binding: Paperback
- 616 pages

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Review

"The writing of this and the previous book Matrix Analysis by the same authors is a wonderful achievement both for the two authors and for the field of matrix theory....a landmark book." Frank Uhlig, Linear Algebra and Its Applications

"There is no doubt that this two volume work, Matrix Analysis and Topics in Matrix Analysis is an important and unique contribution to the contemporary book literature on matrix theory." Marvin Marcus, Bulletin of the American Mathematical Society

"I can recommend it without hesitation to both the producers and consumers of matrix theory." G.W. Stewart, SIAM Review

"There are three reasons why Horn and Johnson's new book Topics in Matrix Analysis and its predecessor Matrix Analysis are indispensable. First, the authors cover their topics in depth. Second, they cover nonstandard topics. Third, they organize their material in the style of a textbook. Compared to an encyclopedia, they are more selective and more detailed; compared to exhaustive treatises, they are less selective and less detailed. Horn and Johnson establish a middle ground where they come much more than half way in meeting the reader who wants to do something with linear algebra." Bulletin of the International Linear Algebra Society

About the Author

Roger A. Horn is a Research Professor in the Department of Mathematics at the University of Utah. He is co-author of Topics in Matrix Analysis (Cambridge University Press, 1994).

Charles R. Johnson is a Professor in the Department of Mathematics at the College of William and Mary. He is co-author of Topics in Matrix Analysis (Cambridge University Press, 1994).

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