Linear Algebra and Differential Equations

By Gary L. Peterson, James S. Sochacki

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This book has been written for a one-semester combined linear algebra and differential equations course, yet it contains enough material for a two-term sequence in linear algebra and differential equations. By introducing matrices, determinants, and vector spaces early in the course, the authors are able to fully develop the connections between linear algebra and differential equations. The book is flexible enough to be easily adapted to fit most syllabi, including courses that cover differential equations first. Technology is fully integrated where appropriate, and the text offers fresh and relevant applications to motivate student interest.

Matrices and Determinants; Vector Spaces; First Order Ordinary Differential Equations; Linear Differential Equations; Linear Transformations and Eigenvalues and Eigenvectors; Systems of Differential Equations; The Laplace Transform; Power Series Solutions to Linear Differential Equations; Inner Product Spaces

For all readers interested in linear algebra and differential equations.

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Linear Algebra and Differential Equations By Gary L. Peterson, James S. Sochacki Bibliography

- Sales Rank: #652030 in Books
- Published on: 2001-08-03
- Original language: English
- Number of items: 1
- Dimensions: 8.90" h x 1.00" w x 7.40" l, 2.15 pounds
- Binding: Paperback
- 480 pages

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