



Advanced Linear Algebra, Second Edition (Textbooks in Mathematics)

Bruce Cooperstein

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The new edition of this successful text focuses on vector spaces and the maps between them that preserve their structure (linear transformations). Designed for advanced undergraduate and beginning graduate students, the book discusses the structure theory of an operator, various topics on inner product spaces, and the trace and determinant functions of a linear operator. It addresses bilinear forms with a full treatment of symplectic spaces and orthogonal spaces, as well as explains the construction of tensor, symmetric, and exterior algebras.

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- Adds sections on normed vector spaces, orthogonal spaces over perfect fields of characteristic two, and Clifford algebras
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