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Título: Linear Algebra And Geometry

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Precio: \$1151.07

Editorial:

Año: 2013

Tema:

Edición: 1ª

Sinopsis

ISBN: 9783642309939

Clearly written and easy to read

Contains also rather deep and not trivial subjects and theorems and can also be useful for professionals

Good introduction to the subject

Numerous examples and applications of pure mathematical notions

I.R. Shafarevich is an outstanding mathematician and author of well-known books (e.g., "Basic Notions of Algebra")

This book on linear algebra and geometry is based on a course given by renowned academician I.R. Shafarevich at Moscow State University. The book begins with the theory of linear algebraic equations and the basic elements of matrix theory and continues with vector spaces, linear transformations, inner product spaces, and the theory of affine and projective spaces. The book also includes some subjects that are naturally related to linear algebra but are usually not covered in such courses: exterior algebras, non-Euclidean geometry, topological properties of projective spaces, theory of quadrics (in affine and projective spaces), decomposition of finite abelian groups, and finitely generated periodic modules (similar to Jordan normal forms of linear operators). Mathematical reasoning, theorems, and concepts are illustrated with numerous examples from various fields of mathematics, including differential equations and differential geometry, as well as from mechanics and physics.

Content Level » Lower undergraduate

Keywords » groups, rings, modules - linear algebra - matrix - projective space - vector space

Related subjects » Algebra - Geometry & Topology