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Around 1960 the development of algebraic topology and algebraic K-theory led to the study of quadratic forms over commutative rings and hermitian forms over rings with involutions. Not surprisingly, in this more general setting, algebraic K-theory plays the role that linear algebra plays in the case of fields.

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On the basis of both - the number theory of quadratic forms and the ideas of modern algebra - Witt opened, in 1937, a new chapter in the theory of quadratic forms. His most fruitful idea was to

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consider not single "individual" quadratic forms but rather the entity of all forms over a fixed ground field and to construct from this an algebraic ...

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Quadratic and Hermitian Forms over Rings | Max-Albert Knus ...

By M.-A. Knus: 524 pp., DM. 198.-, ISBN 3 540 52117 8 (Springer, 1991).

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Quadratic and Hermitian Forms. Usually dispatched within 3 to 5 business days. For a long time - at least from Fermat to Minkowski - the theory of quadratic forms was a part of number theory. Much of the best work of the great number theorists of the eighteenth and nineteenth century was concerned with problems about quadratic forms.

Quadratic and Hermitian Forms | W. Scharlau | Springer

Bilinear, Quadratic, and Hermitian Forms, Linear Algebra 4th - Seymour Lipschutz, Marc Lipson | All the textbook answers and step-by-step explanations

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Bilinear, Quadratic, and Hermitian Forms | Linear...

Summary: This book presents the theory of quadratic and hermitian forms over rings in a very general setting. It avoids, as far as possible, any restriction on the characteristic and takes full advantage of the functorial properties of the theory. It is not an encyclopedic survey.

Quadratic and Hermitian Forms over Rings (eBook, 1991 ...

Quadratic forms are most usually encountered with real variables; when the variables range over the complex numbers, the hermitian form is generally more interesting, in which each term in the sum is a product of a variable with its conjugate or that of another, multiplied by

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Summary: Presenting the theory of quadratic and hermitian forms over rings

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in an algebraic setting, this textbook features a detailed study of Clifford algebras and complete proofs of the stability, cancellation and splitting theorems in unitary K-theory.

Quadratic and hermitian forms over rings (Book, 1991 ...

theory of hermitian forms over these division algebras with involution reduces to the theory of quadratic forms. In this work we generalize the ideas of and associate a system of quadratic forms to every ± 1 -hermitian form over a division algebra with involution of the

Hermitian Forms and Systems of Quadratic Forms

An important problem in the theory of hermitian forms is to associate some quadratic form over the base field to a hermitian form capturing information about it. This is inspired by the fact that hermitian forms over division algebras with involution are natural generalizations of bilinear and quadratic

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forms.

Quadratic D-forms with applications to hermitian forms ...

A complex Hermitian form (also called a symmetric sesquilinear form), is a sesquilinear form $h : V \times V \rightarrow \mathbb{C}$ such that $h(w, z) = \overline{h(z, w)}$. The standard Hermitian form on \mathbb{C}^n is given (again, using the "physics" convention of linearity in the second and conjugate linearity in the first ...

Sesquilinear form - Wikipedia

For a long time - at least from Fermat to Minkowski - the theory of quadratic forms was a part of number theory. Much of the best work of the great number theorists of the eighteenth and nineteenth century was concerned with problems about quadratic forms. On the basis of their work, Minkowski, Siegel, Hasse, Eichler and many others created the impressive "arithmetic" theory of quadratic ...

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Quadratic and Hermitian Forms - W. Scharlau - Google Books

In the $2n$ 2-dimensional vector space of complex $n \times n$ matrices over \mathbb{R} , the complex Hermitian matrices form a subspace of dimension n^2 . If E_{jk} denotes the n -by- n matrix with a 1 in the j, k position and zeros elsewhere, a basis (orthonormal w.r.t. the Frobenius inner product) can be described as follows:

Hermitian matrix - Wikipedia

Quadratic Forms over Fields in Characteristic 2.- 10. Hermitian Forms over Global Fields.- §1. Hermitian Forms over Commutative Fields and Quaternion Algebras.- §2. Simple Algebras and Involutions over Local and Global Fields.- §3. Skew Hermitian Forms over Quaternion Fields.- §4. Skew Hermitian Forms over Global Quaternion Fields..- §5.

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HERMITIAN FORMS AND POINTS ON FLAG VARIETIES 3 There exists a very

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general theory of representation numbers of one form by another, developed by Siegel for quadratic forms [Sie35, Sie36, Sie37] and extended to Hermitian forms by H. Braun [Bra41]. For more information, see the recent survey of Schulze-Pillot [SP04].

UNITARY PERIODS, HERMITIAN FORMS AND POINTS ON FLAG VARIETIES

The determinant regarded up to multiplication by such elements is called the determinant of the Hermitian form or of the Hermitian space X ; it is an important invariant and is used in the classification of Hermitian forms. Let R be commutative. Then a Hermitian form φ on X gives rise to a quadratic form $Q(x) = \varphi(x, x)$ on X over R .

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