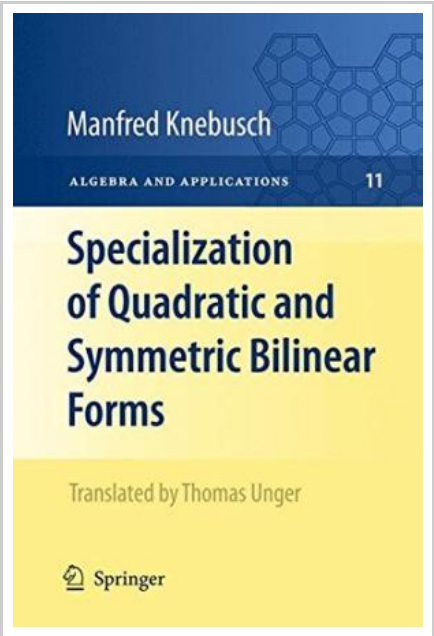

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Specialization of Quadratic and Symmetric Bilinear Forms

By Manfred Knebusch

Springer-Verlag Gmbh Sep 2010, 2010. Buch. Book Condition: Neu. 23.5x15.5x cm. Neuware - A Mathematician Said Who Can Quote Me a Theorem that's True For the ones that I Know Are Simply not So, When the Characteristic is Two! This pretty limerick rst came to my ears in May 1998 during a talk by T.Y. Lam 1 on eld invariants from the theory of quadratic forms. It is-poetic exaggeration allowed-a suitable motto for this monograph. What is it about At the beginning of the seventies I drew up a specialization theoryofquadraticandsymmetricbilinear formsover elds[32].Let : K L be a place. Then one can assign a form ( )toaform over K in a meaningful way if has 'good reduction' with respect to (see 1.1). The basic idea is to simply apply the place to the coe cients of , which must therefore be in the valuation ring of . The specialization theory of that time was satisfactory as long as the eld L, and therefore also K, had characteristic 2. It served me in the rst place as the foundation for a theory of generic splitting of quadratic forms [33], [34]. After a very modest beginning, this theory is now in full...

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