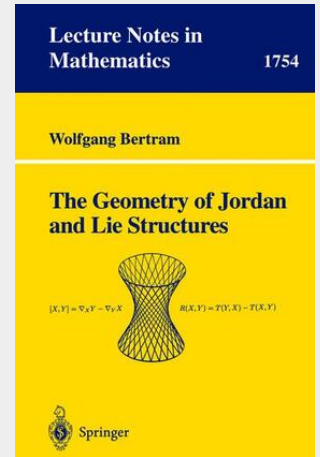


## The Geometry of Jordan and Lie Structures

0. In this work of we the Lie- and Jordan on an study interplay theory and on a level. We intend to continue into an algebraic geometric systematic study of the role Jordan in harmonic In the of theory plays analysis. fact, applications the of Jordan to the harmonic on cones theory algebras analysis symmetric (cf. of the were at the the author's work in this area. Then monograph [FK94]) origin Jordan in of turned the causal algebras up study many symmetric (see spaces Section and clear that all soon it became XI.3), "generically" symmetric spaces have Since a relation to Jordan Jordan does not significant theory. theory (yet) to the standard tools in harmonic the is text belong analysis, present designed to self-contained introduction to Jordan for readers a provide theory having basic Lie and Our of view some on knowledge groups symmetric spaces. point is introduce first the relevant structures geometric: throughout we geometric and deduce from their identities for the associated properties algebraic algebraic structures. Thus our differs from related ones presentation (cf. e.g. [FK94], the fact that we do not take an axiomatic definition of some [Lo77], [Sa80]) by Jordan structure as our Let us now an overview of algebraic starting point. give the See also the introductions the contents. at of each given beginning chapter. 0.1. Lie and Jordan If we the associative algebras algebras. decompose of the matrix in its and product algebra  $M(n, \mathbb{R})$  symmetric skew-symmetric parts,  $-XY YX XY YX + XY = + (0.1) 2 2$  then second the term leads to the Lie with algebra  $gf(n, \mathbb{R})$  product  $[X, Y] XY$ - and first the term leads to the Jordan  $M$  with  $XY$ , algebra  $(n, \mathbb{R})$  product  $-XY = + (XY YX)$ .

Springer Book Archives



**53,49 €**

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

**Artikelnummer:** 9783540414261

**Medium:** Buch

**ISBN:** 978-3-540-41426-1

**Verlag:** Springer Berlin Heidelberg

**Erscheinungstermin:** 12.12.2000

**Sprache(n):** Englisch

**Auflage:** 2000

**Serie:** Lecture Notes in Mathematics

**Produktform:** Kartoniert

**Gewicht:** 443 g

**Seiten:** 274

**Format (B x H):** 155 x 233 mm

