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Noncommutative duplicate and Jordan algebras. II. (English) Zbl 1266.17019

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Summary: Let K be a commutative field of characteristic zero. Let A be a finite dimensional algebra over K , not necessarily commutative and $D(A)$ the noncommutative duplicate of A . Here we give necessary and sufficient conditions for $D(A)$ to be a Jordan algebra.

For part I, see [the first author, Adv. Theor. Appl. Math. 5, No. 2, 223–235 (2010)].

MSC:

17C99 Jordan algebras (algebras, triples and pairs)