

Jacobson

Exceptional Lie Algebras

This volume presents a set of models for the exceptional Lie algebras over algebraically closed fields of characteristic 0 and over the field of real numbers. The models given are based on the algebras of Cayley numbers (octonions) and on exceptional Jordan algebras. They are also valid for characteristics $p \neq 2$. The book also provides an introduction to the problem of forms of exceptional simple Lie algebras, especially the exceptional D_4 's, F_4 's, and E_7 's. These are studied by means of concrete realizations of the automorphism groups. Exceptional Lie Algebras is a useful tool for the mathematical public in general—especially those interested in the classification of Lie algebras or groups—and for theoretical physicists.



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