



Notes on Lie Algebras (Paperback)

By Hans Samelson

Springer-Verlag New York Inc., United States, 1990. Paperback. Condition: New. Language: English . Brand New Book. (Cartan sub Lie algebra, roots, Weyl group, Dynkin diagram, . . .) and the classification, as found by Killing and Cartan (the list of all semisimple Lie algebras consists of (1) the special- linear ones, i. e. all matrices (of any fixed dimension) with trace 0, (2) the orthogonal ones, i. e. all skewsymmetric ma- trices (of any fixed dimension), (3) the symplectic ones, i. e. all matrices M (of any fixed even dimension) that satisfy $M J = - J M^T$ with a certain non-degenerate skewsymmetric matrix J , and (4) five special Lie algebras G_2, F_4, E_6, E_7, E_8 , of dimensions 14,52,78,133,248, the exceptional Lie 4 6 7 s algebras , that just somehow appear in the process). There is also a discus- sion of the compact form and other real forms of a (complex) semisimple Lie algebra, and a section on automorphisms. The third chapter brings the theory of the finite dimensional representations of a semisimple Lie alge- bra, with the highest or extreme weight as central notion. The proof for the existence of representations is an...



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