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**Título:** Semi-Simple Lie Algebras And Their Representations

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**Sinopsis**

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Designed to acquaint students of particle physics already familiar with  $SU(2)$  and  $SU(3)$  with techniques applicable to all simple Lie algebras, this text is specially suited to the study of grand unification field theories. Author Robert N. Cahn, who is affiliated with the Lawrence Berkeley National Laboratory in Berkeley, California, has provided a new preface for this edition.

Subjects include the Killing form, the structure of simple Lie algebras and their representations, simple roots and the Cartan matrix, the classical Lie algebras, and the exceptional Lie algebras. Additional topics include Casimir operators and Freudenthal's formula, the Weyl group, Weyl's dimension formula, reducing product representations, subalgebras, and branching rules.