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Borel (Institute for Advanced Study, Princeton), presents new and previously published essays on topics related to the first century of the history of Lie and algebraic groups. After placing them in context via overviews of Lie's theory, Lie algebras, and globalization, he covers proofs of the full reducibility of SL-2; the work of Hermann Weyl on Lie groups, Lie algebras, and invariant theory; <'E>lie Cartan's theory of semisimple Lie groups and Riemannian symmetric spaces, and his further developments (e.g., generalization of the Peter-Weyl theorem to compact symmetric spaces); linear algebraic groups in the 19th and 20th centuries; the work of Chevalley in Lie groups and algebraic groups; and algebraic groups and Galois theory in the work of Ellis R. Kolchin.