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Titolo	Algebraic Groups and Lie Groups with Few Factors [[electronic resource] /] / by Alfonso Di Bartolo, Giovanni Falcone, Peter Plaumann, Karl Strambach
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Prerequisites -- Extensions -- Groups of Extreme Nilpotency Class -- Chains -- Groups with Few Types of Isogenous Factors -- Three-Dimensional Affine Groups -- Normality of Subgroups.
Sommario/riassunto	Algebraic groups are treated in this volume from a group theoretical point of view and the obtained results are compared with the analogous issues in the theory of Lie groups. The main body of the text is devoted to a classification of algebraic groups and Lie groups having only few subgroups or few factor groups of different type. In particular, the diversity of the nature of algebraic groups over fields of positive characteristic and over fields of characteristic zero is emphasized. This is revealed by the plethora of three-dimensional unipotent algebraic

groups over a perfect field of positive characteristic, as well as, by many concrete examples which cover an area systematically. In the final section, algebraic groups and Lie groups having many closed normal subgroups are determined.