Introduction to Affine Group Schemes (Graduate Texts in Mathematics)

W.C. Waterhouse

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Ah Love! Could you and I with Him consl?ire To grasp this sorry Scheme of things entIre' KHAYYAM
People investigating algebraic groups have studied the same objects in many different guises. My first goal
thus has been to take three different viewpoints and demonstrate how they offer complementary intuitive
insight into the subject. In Part I we begin with a functorial idea, discussing some familiar processes for
constructing groups. These turn out to be equivalent to the ring-theoretic objects called Hopf algebras, with
which we can then con struct new examples. Study of their representations shows that they are closely
related to groups of matrices, and closed sets in matrix space give us a geometric picture of some of the
objects involved. This interplay of methods continues as we turn to specific results. In Part II, a geometric
idea (connectedness) and one from classical matrix theory (Jordan decomposition) blend with the study of
separable algebras. In Part III, a notion of differential prompted by the theory of Lie groups is used to prove
the absence of nilpotents in certain Hopf algebras. The ring-theoretic work on faithful flatness in Part IV
turns out to give the true explanation for the behavior of quotient group functors. Finally, the material is
connected with other parts of algebra in Part V, which shows how twisted forms of any algebraic structure
are governed by its automorphism group scheme.

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