<<霍普夫代数>>

图书基本信息

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作者:英一安倍晋三

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内容概要

If for instance , we replace the finite group G in the above argumentby a topological group and k by the field of real numbers or the field ofcomplex numbers , or if we take G to be an algebraic group over analgebraically closed field k and A is replaced by the k-algebra of allcontinuous representative functions or of all regular functions over G , then A turns out to be a k-Hopf algebra in exactly the same manner. These algebraic systems play an important role when studying the structure of G. Similarly , a k-Hopf algebra structure can be defined naturally on the universal enveloping algebra of a k-Lie algebra. The universal enveloping algebra of the Lie algebra of asemi-simple algebraic group turns out to be (in a sense) the dual of the Hopf algebra defined above. These constitute some of the mostnatural examples of Hopf algebras. The general structure of such algebraic groups or the Galois theory of purely inseparable extensions , and a great deal of research is currently being conducted in this area.

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