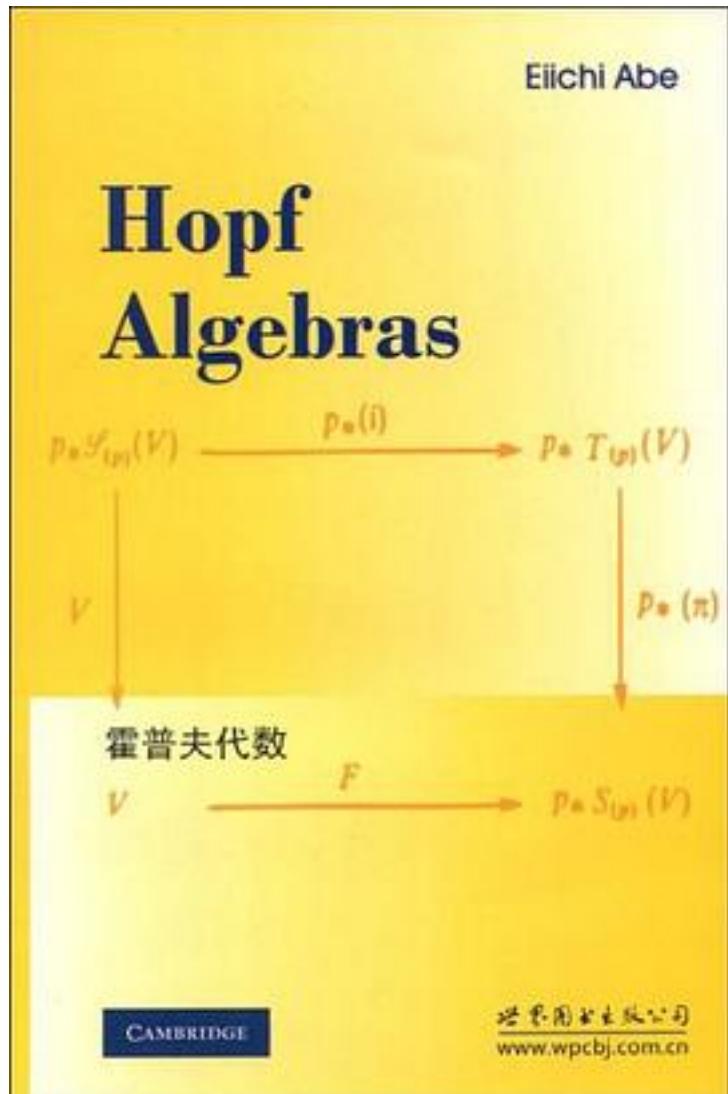


# 霍普夫代数



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《霍普夫代数(英文版)》内容为：If for instance, we replace the finite group  $G$  in the above argument by a topological group and  $k$  by the field of real numbers or the field of complex numbers, or if we take  $G$  to be an algebraic group over an algebraically closed field  $k$  and  $A$  is replaced by the  $k$ -algebra of all continuous 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 a semi-simple algebraic group turns out to be (in a sense) the dual of the Hopf algebra defined above. These constitute some of the most natural examples of Hopf algebras. The general structure of such algebraic systems has recently become a focus of interest in conjunction with its applications to the theory of algebraic groups or the Galois theory of purely inseparable extensions, and a great deal of research is currently being conducted in this area.

作者介绍：

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## 书评

最近我读了Eiichi Abe的Hopf algebras, 感觉这本书是用结构主义的观点写成的, 连具体实例都显得相当工整。下面我就尝试着用自己提出的MLMA大法, 对Hopf代数这个较复杂的基础概念做简单剖析。Motivation: Hopf代数的主要动机应该源于范畴论中的对偶, 当我们掌握了...

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