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<<结合代数表示论基础 第3卷>>

图书基本信息

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内容概要

本书是一部三卷集的研究生水平的复合代数入门书籍，是《伦敦数学学会学生教程》系列之一。本书第三卷，给出了封闭域上有限维复合代数表示论的现代技巧，从tame-wild二分法角度讲述表示-无限覆盖代数。
书中包括了欧氏型表示-无限覆盖代数的详细表述，讨论了野生型遗传代数上模型范畴的野生行为。
大量的例子和每章末的练习使书中的内容更加丰富，容易理解。
详细的证明是初学者和自学者以及想更加详细了解复合代数表示论知识的读者相当十分有益。
目次：代数的管状延伸和管状共同延伸；分支代数；欧氏型覆盖代数；野生型遗传代数和覆盖代数；前景展望。
读者对象：适用于代数表示论和数学的相关理论。

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章节摘录

版权页：插图：In Volume 3.we study the repsentation-infinite tilted algebras B：End TXo of a Euclidean type Q，where TKQ is a tilting TKQ-module.Wegive a fairlv complete description of their indecomposable modules，theirmodule categories mod B.and the Auslander-Reiten quivers r（mod B）.The aim of the present chapter iS to introduce concepts playing a fun-damental r61e in the classification of arbitrary representation-infinite tiltedalgebras of Euclidean type，presented in Chapter XVII. In Section 1，we introduce the concepts of a one-point extension and aone-point coextension of an algebra，and we discuss a behavior of almost split sequences under the one-point extension and the one-point coextenS00nprocedure.In Section 2.we introduce the concepts of a tubular extension and atubular coextension of an algebra，and the related concepts of ray tubes and coray tubes.As we shall see in Chapter XVII，the components of a representation-infinite tilted algebra of Euclidean type that are neither postprojective nor preinjective，are ray tubes or coray tubes · In Section 3，we show that the concepts of the tubular extension and thetubular coextension of an algebra coincide with the concepts of a branch extension and a branch coextension of an algebra. In Section 4，we discuss the structure of the module categories mod／J and mod B'of a tubular extension B and a tubular coextension B'of a concemed algebra A of Euclidean type，and we introduce the concept of thetubular type of such algebras.The study we start in Section 4 is continuedin Chapter XVII.we show there that every representation-infinite tilted al-gebra of Euclidean type is either a domestic tubular extension or a domestictubular coextension of a concealed algebra of Euclidean type.

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