## 图书基本信息

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## 内容概要

代数几何和算术代数几何是现代数学的重要分支，与数学的许多分支有着广泛的联系，如数论、解析几何、微分几何、交换代数、代数群、拓扑学等。
代数几何是任何一个希望在数学学科有所作为的学生和研究人员需要了解的一门学科，而模空间是代数几何最重要的一类对象。
《模手册（卷3）（英文版）》是由50多位活跃在代数几何领域的世界知名专家撰写的综述性文章组成。
每一篇文章针对一个专题，作者力求将第一手、最新鲜的材料呈现给读者，通过介绍该专题中基础知识、例子和结论，带领读者快速进入该领域，并了解领域内重要问题；同时介绍最新的进展，使得读者能够很快捕捉到该领域最主要的文献。

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## 书籍目录

## 章节摘录

版权页： 插图： The max in the display is achieved for ｜r-s｜≤1. Thus M naive G,{μ},C is not flat for ｜r-s｜>1, as its generic and special fibers have different dimension. We note that the analogous argument given in the proof of [75, Prop. 3.8(b)] should be amended to use the reduced special fiber in place of the honest special fiber. As always, one remedies for non-flatness of the naive local model by defining the honest local model M loc G,{μ),C to be the scheme-theoretic closure in M naive G,{μ},C of its generic fiber. Although less is known about Mloc G,{μ},C for ramified GUn than for ramified ResF/F0 GLn and ReSF/F0 GSp2g, there are by now a number of results that have been obtained in various special cases. In low rank, the case rt = 3 has been completely worked out. Theorem 2.24 ([75, 4.5, 4.15], [80, 6]). Let n=3 and (r, s)=(2,1). (i) Let C be the homothety class of the lattice A0=On F Fn. Then M naive G,{μ},C=M locG,{μ},Cthat is, Mnaive G,{μ},C is flat over Spec OF. Moreover, Mnaive G,{μ},C is normal and Cohen-Macaulay,it is smooth outside a single point y in its special fiber, and its special fiber is integral andnormal and has a rational singularity at y. The blowup Mloc G,{μ},C →Mloc G,{μ},C at y isregular with special fiber a reduced union of two smooth surfaces meeting transversely along a smooth curve. (ii) Let,C=[A1, A2], the lattice chain consisting of the homothety classes of A1 and A2. Then.Mloc G,{μ},C is smooth over Spec OF with geometric special fiber isomorphic to P2.(iii) Let,C be the standard maximal lattice chain in F3. Then Mloc G,{μ},C is normal andCohen-Macaulay. Its special fiber is reduced and consists of two irreducible components,each normal and with only rational singularities, which meet along two smooth curves which, in turn, intersect transversally at a point.

## 编辑推荐

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