

# 《模手册》

## 图书基本信息

书名：《模手册》

13位ISBN编号：9787040351743

10位ISBN编号：7040351749

出版时间：2012-12-21

出版社：高等教育出版社

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页数：584

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## 内容概要

《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

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章节摘录

版权页：插图：The max in the display is achieved for  $|r-s| = 1$ . Thus  $M_{\text{naive}} G, \{\mu\}, C$  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  $M_{\text{loc}} G, \{\mu\}, C$  to be the scheme-theoretic closure in  $M_{\text{naive}} G, \{\mu\}, C$  of its generic fiber. Although less is known about  $M_{\text{loc}} G, \{\mu\}, C$  for ramified  $GU_n$  than for ramified  $Res F/F_0 GL_n$  and  $Res F/F_0 GSp_{2g}$ , 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  $A_0 = O_n F^n$ . Then  $M_{\text{naive}} G, \{\mu\}, C = M_{\text{loc}} G, \{\mu\}, C$  that is,  $M_{\text{naive}} G, \{\mu\}, C$  is flat over  $\text{Spec } OF$ . Moreover,  $M_{\text{naive}} G, \{\mu\}, C$  is normal and Cohen-Macaulay, it is smooth outside a single point  $y$  in its special fiber, and its special fiber is integral and normal and has a rational singularity at  $y$ . The blowup  $M_{\text{loc}} G, \{\mu\}, C \rightarrow M_{\text{loc}} G, \{\mu\}, C$  at  $y$  is regular with special fiber a reduced union of two smooth surfaces meeting transversely along a smooth curve. (ii) Let  $C = [A_1, A_2]$ , the lattice chain consisting of the homothety classes of  $A_1$  and  $A_2$ . Then  $M_{\text{loc}} G, \{\mu\}, C$  is smooth over  $\text{Spec } OF$  with geometric special fiber isomorphic to  $P^2$ . (iii) Let  $C$  be the standard maximal lattice chain in  $F^3$ . Then  $M_{\text{loc}} G, \{\mu\}, C$  is normal and Cohen-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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