

<<模手册>>

图书基本信息

书名：<<模手册>>

13位ISBN编号：9787040351682

10位ISBN编号：7040351684

出版时间：2012-12

出版时间：高等教育出版社

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页数：594

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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2）（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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章节摘录

版权页：插图：(By a simplicial cone we mean a cone over a simplex, i.e. a polyhedral cone whose edges are linearly independent) The spaces $(M)_{0,n}$ and $(M)_{0,n}$ are interesting from a number of viewpoints. They are closely related to the moduli space of curves, $(M)g$. A finite quotient of $(M)_{0,n}$ occurs as a locus of degenerate curves in the boundary of $(M)g$, while $(M)_{0,n}$ is the base of the complete Hurwitz scheme (see [2]) which can be used, for example, to prove that $(M)g$ is irreducible. By [3], $(M)_{0,n}$ parametrizes degenerations of rational normal curves. Generalisations of $(M)_{0,n}$ are important for Quantum Cohomology calculations, see [11]. $(M)_{0,n}$ is useful for studying fibrations with general fibre P^1 , as in particular it can sometimes be used in lieu of a minimal model program. Kawamata exploits this in [5] to prove additivity of log Kodaira dimension for one dimensional fibres, and in [6] to prove a codimension two subadjunction formula. We note that there is an explicit construction of $(M)_{0,n}$ as a blow up of P^{n-3} along a sequence of simple centres (see (3.1)). In particular $(M)_{0,5}$ is a del Pezzo of degree five, $(M)_{0,6}$ is log Fano, and $(M)_{0,7}$ is nearly log Fano, in the sense that $-K(M)_{0,7}$ is effective. We do not know of such an explicit construction of $(M)_{0,n}$, and we have in general a much weaker grasp on its geometry (though a much stronger grasp on its cones). Note by (1.3.3), $(M)_{0,n}$ admits no nontrivial fibrations. See also (3.7).

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