

<<模手册>>

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1）（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

Volume Preface Gavril Farkas and Ian Morrison Logarithmic geometry and moduli Dan Abramovich, Qile Chen, Danny Cillam, Yuhao Huang, Martin Olsson, Matthew Satriano and Shenghao Sun Invariant Hilbert schemes Michel Brion Algebraic and tropical curves : comparing their moduli spaces Lucia Caporaso A superficial working guide to deformations and moduli F. Catanese Moduli spaces of hyperbolic surfaces and their Weil-Petersson volumes Norman Do Equivariant geometry and the cohomology of the moduli space of curves Dan Edidin Tautological and non-tautological cohomology of the moduli space of curves C. Faber and R. Pandharipande Alternate compactifications of moduli spaces of curves Maksym Fedorchuk and David Ishii Smyth The cohomology of the moduli space of Abelian varieties Gerard van der Geer Moduli of K3 surfaces and irreducible symplectic manifolds V Gritsenko, K. Hulek and C.K. Sankaran Normal functions and the geometry of moduli spaces of curves Richard Hain Volume Parameter spaces of curves Joe Harris Global topology of the Hitchin system Tamas Hausel Differential forms on singular spaces, the minimal model program, and hyperbolicity of moduli stacks Stefan Kebekus Contractible extremal rays on  $M_{0,n}$  Sean Keel and James McKernan Moduli of varieties of general type Janos Kollar Singularities of stable varieties Sandor J Kovacs Soliton equations and the Riemann-Schottky problem I. Krichever and T. Shiota GIT and moduli with a twist Radu Laza Good degenerations of moduli spaces Jun Li Localization in Gromov-Witten theory and Orbifold Gromov-Witten theory Chiu-Chu Melissa Liu From WZW models to modular functors Eduard Looijenga Shimura varieties and moduli J.s. Milne The Torelli locus and special subvarieties Ben Moonen and Frans Oort Volume Birational geometry for nilpotent orbits Yoshinori Namikawa Cell decompositions of moduli space, lattice points and Hurwitz problems Paul Norbury Moduli of abelian varieties in mixed and in positive characteristic Frans Oort Local models of Shimura varieties, I. Geometry and combinatorics Georgios Pappas, Michael Rapoport and Brian Smithling Generalized theta linear series on moduli spaces of vector bundles on curves Mihnea Popa Computer aided unirationality proofs of moduli spaces Frank-Olaf Schreyer Deformation theory from the point of view of fibered categories Mattia Talpo and Angelo Vistoli Mumford's conjecture-a topological outlook Ulrike Tillmann Rational parametrizations of moduli spaces of curves Alessandro Verra Hodge loci Claire Voisin Homological stability for mapping class groups of surfaces Nathalie Wahl

## 章节摘录

版权页：插图：  $X$  is a projective equivariant completion of  $G/NG(H)$ , called the Demazure embedding of that homogeneous space. In fact, the variety  $X$  is wonderful by a result of Losev (see [38]) based on earlier results of several mathematicians, including Demazure and Knop (see [33, Corollary 7.2]). Moreover, by embedding theory of spherical homogeneous spaces, the log homogeneous embeddings of  $G/H$  are exactly those smooth equivariant embeddings that admit a morphism to  $X$ ; then the logarithmic tangent bundle is the pull-back of the tautological quotient bundle on  $Gr(g)$ . Also, by embedding theory again, a complete log homogeneous variety  $X$  is wonderful if and only if the morphism  $X \rightarrow G/H$  is finite. It follows that every spherical homogeneous space  $G/H$  such that  $H = NG(H)$  admits a wonderful equivariant completion; in the converse direction, if  $G/H$  admits such a completion  $X$ , then  $X$  is unique, and the quotient  $NG(H)/H$  is finite. In particular, the center of  $G$  acts on  $X$  via a finite quotient; thus, one can assume that  $G$  is semi-simple when considering wonderful  $G$ -varieties. Since the  $G$ -variety  $Cr(g)$  contains only finitely many isomorphism classes of spherical  $G$ -orbits, and any  $G$ -homogeneous space admits only finitely many finite equivariant coverings, we see that the number of isomorphism classes of wonderful  $G$ -varieties is finite (for a given group  $G$ ). Also, note that the wonderful varieties are exactly those log homogeneous varieties that are log Fano, i.e., the determinant of the logarithmic tangent sheaf is ample. To classify wonderful  $G$ -varieties, it suffices to characterize those triples  $(A, V, D)$  that occur as combinatorial invariants of their open  $G$ -orbits, in view of Losev's uniqueness result. In fact, part of the information contained in such triples is more conveniently encoded by abstract combinatorial objects called spherical systems.

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