

<<Automated Deduction >>

图书基本信息

书名：<<Automated Deduction in Geometry几何学的自动演绎/会议录>>

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内容概要

This book constitutes the thoroughly refereed post-proceedings of the 4th International Workshop on Automated Deduction in Geometry, ADG 2002, held at Hagenberg Castle, Austria in September 2002. The 13 revised full papers presented were carefully selected during two rounds of reviewing and improvement. Among the issues addressed are theoretical and methodological topics, such as the resolution of singularities, algebraic geometry and computer algebra; various geometric theorem proving systems are explored; and applications of automated deduction in geometry are demonstrated in fields like computer-aided design and robotics.

书籍目录

Algorithmic Tests for the Normal Crossing Property
The Projection of Quasi Variety and Its Application on Geometric Theorem Proving and Formula Deduction
Using Computer Algebra Tools to Classify Serial Manipulators
MMP/Geometer - A Software Package for Automated Geometric Reasoning
The SymbolicData GEO Records - A Public Repository of Geometry Theorem Proof Schemes
A New Structural Rigidity for Geometric Constraint Systems
Algebraic Representation, Elimination and Expansion in Automated Geometric Theorem Proving
The Nonsolvability by Radicals of Generic 3-connected Planar Graphs
Function-Based Shape Modeling: Mathematical Framework and Specialized Language
C1 Spline Implicitization of Planar Curves
Analysis of Geometrical Theorems in Coordinate-Free Form by Using Anticommutative Gröbner Bases Method
GEOTHER 1.1: Handling and Proving Geometric Theorems Automatically
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