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### <<高次逻辑中的定理证明 Theorem>>

#### 图书基本信息

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#### 内容概要

This book constitutes the refereed proceedings of the 15th International Conference on Theorem Proving in Higher Order Logics, TPHOLs 2002, held in Hampton, VA, USA in August 2002. The 20 revised full papers presented together with 2 invited contributions were carefully reviewed and selected from 34 submissions. All current issues in HOL theorem proving and formal verification of software and hardware systems are addressed. Among the HOL theorem proving systems evaluated are Isabelle/HOL, Isabelle/Isar, and Coq.

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#### 书籍目录

Invited Talks Formal Methods at NASA Langley Higher Order Unification 30 Years LaterRegular Papers Combining Higher Order Abstract Syntax with Tacticall Theorem Proving and (Co)Induction Efficient Reasoning about Executable Specifications in Coq Verified Bytecode Model Checkers The 5 Colour Theorem in Isabelle/Isar Type-Theoretic Functional Semantics A Proposal for a Formal OCL Semantics in Isabelle/HOL Explicit Universes for the Calculus of Constructions Formalised Cut Admissibility for Display Logic Formalizing the Trading Theorem for the Classification of Surfaces Free-Style Theorem Proving A Comparison of Two Proof Critics: Power vs. Robustfless Two-Level Meta-reasoning in Coq PuzzleTool: An Example of Programming Computation and Deduction A Formal Approach to Probabilistic Termination Using Theorem Proving for Numerical Analysis Quotient Types: A Modular Approach Sequent Schema for Derived Rules Algebraic Structures and Dependent Records Proving the Equivalence of Microstep and Macrostep Semantics Weakest Precondition for General Recursive Programs Formalized in Coq. Author Index

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