This text and software package introduces readers to automated theorem proving, while providing two approaches implemented as easy-to-use programs. These are semantic-tree theorem proving and resolution-refutation theorem proving. The early chapters introduce first-order predicate calculus, well-formed formulae, and their transformation to clauses. Then the author goes on to show how the two methods work and provides numerous examples for readers to try their hand at theorem-proving experiments. Each chapter comes with exercises designed to familiarise the readers with the ideas and with the software, and answers to many of the problems.

My Personal Review:
So you wanted to know how automated theorem proving algorithms work? This is a hands on book that tells you just that and gives you the sources of a program that implements these algorithms. The book is a cross between giving you theory and telling you about the included programs. As such it is a fast read and is great to learn the basic concepts. Its short comings are that you sometimes need to reread a paragraph a few times because it is written in a fairly terse style. The code is meant to work under unix but compiles and run well under windows visual C++ although one program does not work fully (COMPILE).

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Automated Theorem Proving: Theory and Practice by Monty Newborn - 5 Star Customer Reviews and Lowest Price!