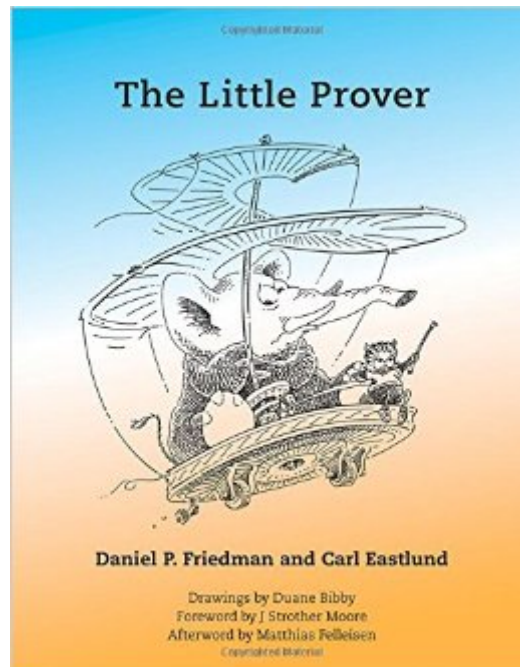# The book was found

The Little Prover (MIT Press)

Synopsis

The Little Prover introduces inductive proofs as a way to determine facts about computer programs. It is written in an approachable, engaging style of question-and-answer, with the characteristic humor of The Little Schemer (fourth edition, MIT Press). Sometimes the best way to learn something is to sit down and do it; the book takes readers through step-by-step examples showing how to write inductive proofs. The Little Prover assumes only knowledge of recursive programs and lists (as presented in the first three chapters of The Little Schemer) and uses only a few terms beyond what novice programmers already know. The book comes with a simple proof assistant to help readers work through the book and complete solutions to every example.

Book Information

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Average Customer Review: 4.8 out of 5 stars See all reviews (4 customer reviews)

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Customer Reviews

Disclaimer: I was a tech reviewer for this book.Ever since computer programming was invented, bugs have been the bane of every programmer's existence. But does it have to be that way? What if we could prove our programs correct? Computer-aided theorem proving applied to proving programs correct has a long and rich history, and its use has accelerated greatly over the past decade. I believe that this will be a foundational subject for the next generation of programmers, as the type systems for existing languages reach their limits and are replaced by richer type systems which require theorem provers as an integral part of the programming process. (Languages/environments like Agda, Coq, and Idris are exploring this space already.) The Little

Prover is a very accessible introduction to theorem proving; if you understand the first few chapters of The Little Schemer (and are willing to work!) you will be able to follow The Little Prover. In addition, the material is fascinating in its own right and will be worthwhile reading as brain food for programmers looking for a new challenge (much like the other "Little" books that Friedman et al have written). However, don't confuse "accessible" with "easy". Compared to a lot of modern proof assistant software like Coq, the proofs are quite manual and require a lot of user guidance. This is actually advantageous in a book like this, because you see every step and never have to wonder how we got from point A to point B (plus the authors are doing all the hard work; you just have to follow along!). The authors also provide a downloadable proof assistant which is extremely helpful when the proofs get sufficiently complex, and they list all the proofs in their final form in the back of the book.

Oracle Database 12c DBA Handbook (Oracle Press) Oracle Solaris 11.2 System Administration Handbook (Oracle Press) Measuring the Digital World: Using Digital Analytics to Drive Better Digital Experiences (FT Press Analytics) LEARN IN A DAY! DATA WAREHOUSING. Top Links and Resources for Learning Data Warehousing ONLINE and OFFLINE: Use these FREE and PAID resources to Learn Data Warehousing in little to no time Introducing Autodesk Maya 2016: Autodesk Official Press Mastering Autodesk Maya 2016: Autodesk Official Press Autodesk Revit Architecture 2016 No Experience Required: Autodesk Official Press Mastering AutoCAD Civil 3D 2016: Autodesk Official Press Computed Tomography: Principles, Design, Artifacts, and Recent Advances (Press Monograph) Introducing JavaFX 8 Programming (Oracle Press) Principles of Cyber-Physical Systems (MIT Press) The Little Coffee Know-It-All: A Miscellany for growing, roasting, and brewing, uncompromising and unapologetic The Wine Press and the Cellar: A Manual for the Wine-Maker and the Cellar-Man (Classic Reprint) The Little Prover (MIT Press) String Art: Fadengrafik mit Nagel & Faden (German Edition) The Encyclopedia of Mosaic Techniques: A Step-by-Step Visual Dictionary with an Inspirational Gallery of Finished works (Search Press Classics) Beginner's Guide to Mosaic (Search Press Classics) Fun Food for Fussy Little Eaters: How to get your kids to eat fruit and veg Die Abenteuer des Pinocchio (Geschichte eines Hampelmanns): Illustrierte Ausgabe (mit sämtliche Ã ber 82 Illustrationen von Enrico Mazzanti) (German Edition) Kids' Treats: 50 Easy, Extra-Special Snacks to Make with Your Little Ones