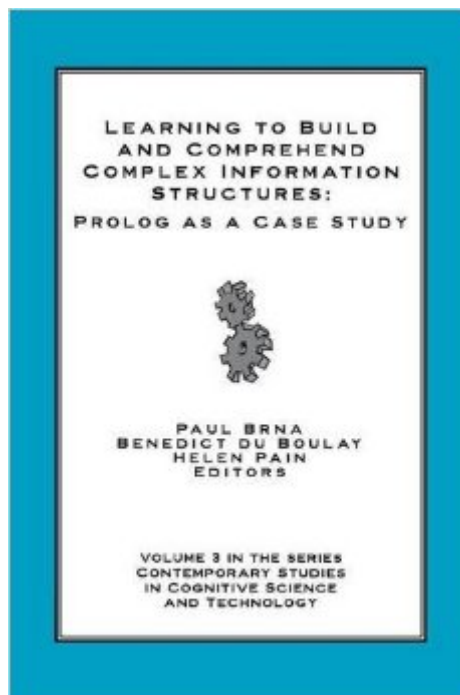


The book was found

# Learning To Build And Comprehend Complex Information Structures: Prolog As A Case Study (New Directions In Computers And Composition Studies)



## Synopsis

Complex information structures are found in many disciplines including physics, genetics, biology and all branches of the information sciences. The current increasing, widespread use of information technology in all academic activities' emphasizes the need to understand how people construct and use such structures. The practices and activities found within the community of programmers provides a rich study area. The contents of this book are devoted to fundamental research that directly informs: the teaching community about some of the recent issues and problems that should help readers to increase their awareness when designing systems to support teaching, learning and using information technology; the psychology of the programming community about work in the area of learning to build, and debug programs; and the software engineering community in terms of the issues that implementors need to take into account when designing and building tools and environments for computer-based systems.

## Book Information

Series: New Directions in Computers and Composition Studies (Book 3)

Paperback: 430 pages

Publisher: Praeger (August 10, 1999)

Language: English

ISBN-10: 1567504353

ISBN-13: 978-1567504354

Product Dimensions: 6 x 0.9 x 9 inches

Shipping Weight: 1.3 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (1 customer review)

Best Sellers Rank: #16,550,743 in Books (See Top 100 in Books) #95 inÂ Books > Computers & Technology > Programming > Languages & Tools > Prolog #13379 inÂ Books > Education & Teaching > Schools & Teaching > Education Theory > Educational Psychology #17779 inÂ Books > Politics & Social Sciences > Social Sciences > Library & Information Science > General

## Customer Reviews

This is a wonderful book for many reasons, but the biggest wonder was that it was ever published! It documents obscure research about an obscure programming language--and the point of the research is to find out why it is so obscure!If you are a big fan of prolog, but are still wondering why it didn't take off, this book will tell you. For me, the biggest take away messages are these:1. The very uniformity of the syntax--which makes Prolog "beautiful" in a sense--is a source of obscurity,

because since everything is just clauses, its hard to tell what any particular clause is doing. In, say, C, its easy to tell if something is a for-loop or not--the keyword "for" is right there. But in prolog, iteration over a range of values looks pretty much like any other programming statement. There is no syntactic differentiation to help you understand the semantics.<sup>2</sup> In order to understand a prolog program, you pretty much have to be a master of redaction criticism. For example, a prolog program to sum up the values of all the integers in a list of integers is typically written by taking the code for the member/2 function and editing it--adding here an accumulator, there a summation, etc. This is called "Skeletons and Techniques" by Lee Naish and other exponents. It is a very powerful way to develop prolog programs, but someone else wanting to understand your prolog program must first understand how member/2 works, then they must work backwards from the changes you've made to it, first determining how you've edited member/2 and what your editorial changes mean, before they can understand your code. Its very tricky!Talk about a book which isn't for everyone! But if you are in the business of designing languages, there's lots of interesting insights here just waiting to be gleaned.

[Download to continue reading...](#)

Learning to Build and Comprehend Complex Information Structures: Prolog as a Case Study (New Directions in Computers and Composition Studies) Learning to Build and Comprehend Complex Information Structures: Prolog as a Case Study (Contemporary Studies in Cognitive Science and Technology) Prolog Programming Success in a Day: Beginners Guide to Fast, Easy and Efficient Learning of Prolog Programming Prolog Programming Success in a Day: Beginner's Guide to Fast, Easy, and Efficient Learning of Prolog Programming Great Big World of Computers - History and Evolution : 5th Grade Science Series: Fifth Grade Book History Of Computers for Kids (Children's Computer Hardware Books) Case Studies in Immunology: A Clinical Companion (Geha, Case Studies in Immunology: A Clinical Companion) Beginning micro-PROLOG (The Ellis Horwood series in computers and their applications) Programming in Micro-PROLOG (Ellis Horwood Series in Computers and Their Applications) graph paper composition book: Blue Damask Design, Graph Paper Notebook and Conversion Chart, 7.5 x 9.25, 160 Pages For for School / Teacher / Office / Student Composition Book Music Composition for Film and Television (Music Composition: Film Scoring) Barron's AP English Literature and Composition, 6th Edition (Barron's AP English Literature & Composition) Photography : How To Take Professional Images From Your DSLR - Camera, Pictures, Posing, Composition & Portrait (Photography for begginers, photoshop, ... travel, photography composition, business) Photography Composition: 12 Composition Rules for Your Photos to Shine Prolog and Natural-Language Analysis (Center for the Study of Language &

Information - Lecture Notes) Prolog: Reproductive Endocrinology and Infertility / Critique Book / Assessment Book (ACOG, PROLOG) AI Algorithms, Data Structures, and Idioms in Prolog, Lisp, and Java Scooby-Doo Set of 8 Mystery Chapter Books (Haunted Castle ~ Snow Monster ~ Fairground Phantom ~ Spooky Strikeout ~ Case of the Haunted Hound ~ Case of the Living Doll ~ Case of the Spinning Spider ~ The Creepy Camp) Indian Blues: American Indians and the Politics of Music, 1879&#150;1934 (New Directions in Native American Studies series) Reimagining Indian Country: Native American Migration and Identity in Twentieth-Century Los Angeles (First Peoples: New Directions in Indigenous Studies) Lynching and Spectacle: Witnessing Racial Violence in America, 1890-1940 (New Directions in Southern Studies)

[Dmca](#)