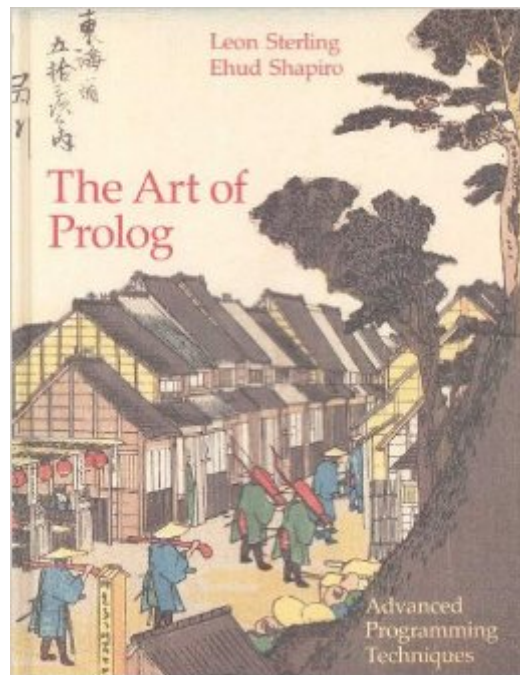


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# The Art Of Prolog: Advanced Programming Techniques (Mit Press Series In Logic Programming)



## Synopsis

This new edition of *The Art of Prolog* contains a number of important changes. Most background sections at the end of each chapter have been updated to take account of important recent research results, the references have been greatly expanded, and more advanced exercises have been added which have been used successfully in teaching the course. Part II, *The Prolog Language*, has been modified to be compatible with the new Prolog standard, and the chapter on program development has been significantly altered: the predicates defined have been moved to more appropriate chapters, the section on efficiency has been moved to the considerably expanded chapter on cuts and negation, and a new section has been added on stepwise enhancement—a systematic way of constructing Prolog programs developed by Leon Sterling. All but one of the chapters in Part III, *Advanced Prolog Programming Techniques*, have been substantially changed, with some major rearrangements. A new chapter on interpreters describes a rule language and interpreter for expert systems, which better illustrates how Prolog should be used to construct expert systems. The chapter on program transformation is completely new and the chapter on logic grammars adds new material for recognizing simple languages, showing how grammars apply to more computer science examples. --This text refers to an out of print or unavailable edition of this title.

## Book Information

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## Customer Reviews

This, to me, is one of the 4 best books on computer programming. Unfortunately, it is hard. Not

because the book is poorly written - it is like a wonderful story, but because understanding how to think declaratively after being taught something like C or Java is like someone giving you a pair of wings when you're a mudfish. Thinking declaratively changes how you think about problems and how you write code. It's a career changing experience. This book leads the way. Top 4: \* Structure and Interpretation of Computer Programs (Sussman, Abelson) \* The Art of Prolog by Sterling/Shapiro \* Introduction to Algorithms by Cormen, etc. \* Concepts, Techniques, and Models of Computer Programming by Van Roy and Haridi

I can't think of a single bad thing to say about this book. The writing is clear, the examples numerous and interesting, and topics are covered thoroughly. There are exercises of various levels of difficulty. Very suitable for self study.

If you have previous programming experience, Prolog will be quite a challenge. Logic programming is very different from functional or imperative, and will definitely be a major culture shock. The first part of the book introduces the concepts of logic programming at the right pace, giving you time to assimilate everything. The second part contains several applications of Prolog. This is a great first book on Prolog and will certainly help you 'getting it'.

I bought this book for the cover (it's good enough to keep on a coffee table), and stayed for the code. My favorite part of the book is Part II, where the Prolog language is described. I learned Prolog from the Clocksin and Mellish book, but never really "got it" until I went through The Art of Prolog.

Admittedly, this one tends to be a bit pricey. But, the content is pure gold for any programmer. Nowhere is the Prolog paradigm better conveyed than here. And, it is of little value to you if you attempt to learn prolog with a mindset of some other language. Prolog is unique and demands a unique way of looking at computer programming in general. It is dated a bit in that it does not cover all the latest developments in Prolog/AI research but no other Prolog books provide the foundational understanding that it does. Get this one for a solid foundation and then build on it with others. See my listmania list of AI Language books for suggestions of followup titles.

This book is a must for anyone starting to program in Prolog or interested in logic programming. A downside of the book (if any) can be that it could have detailed more in the respect of Prolog's

applications. The pleasant style of the authors would have made a wonderful introduction into these fields. A real pleasure to read.

After Clocksin and Mellish this is the book to get. It develops the fundamental ideas of the core language, and, continuing in the same style of proper language use and applied computer science avoids being esoteric as it pushes the reader to higher order programming naturally.

Recommended! Bought mine second hand in excellent condition. Shame it's not available on Kindle.

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