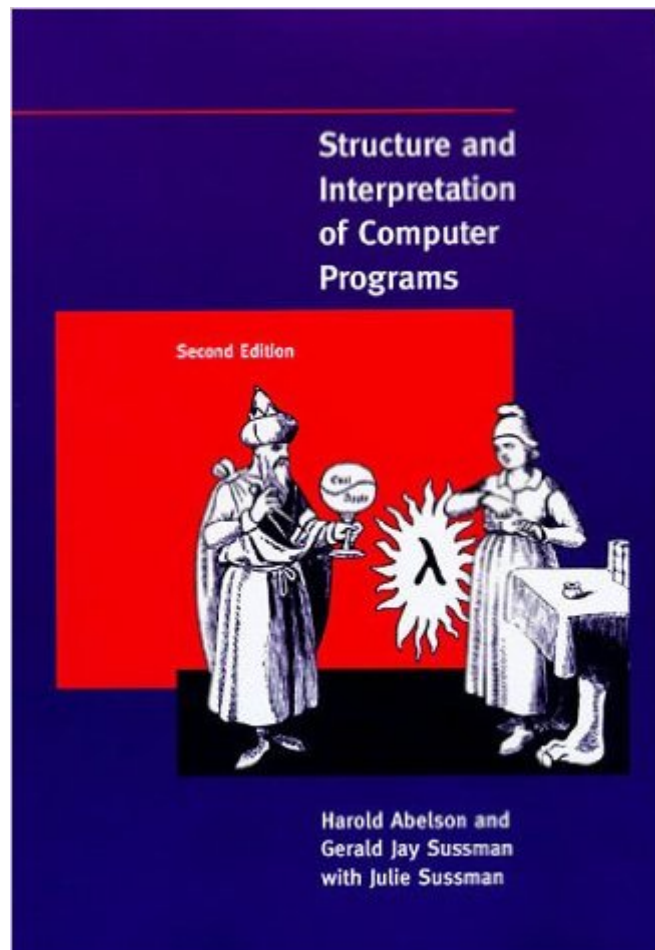# Structure And Interpretation Of Computer Programs - 2nd Edition (MIT Electrical Engineering And Computer Science)

Synopsis

Structure and Interpretation of Computer Programs has had a dramatic impact on computer science curricula over the past decade. This long-awaited revision contains changes throughout the text. There are new implementations of most of the major programming systems in the book, including the interpreters and compilers, and the authors have incorporated many small changes that reflect their experience teaching the course at MIT since the first edition was published. A new theme has been introduced that emphasizes the central role played by different approaches to dealing with time in computational models: objects with state, concurrent programming, functional programming and lazy evaluation, and nondeterministic programming. There are new example sections on higher-order procedures in graphics and on applications of stream processing in numerical programming, and many new exercises. In addition, all the programs have been reworked to run in any Scheme implementation that adheres to the IEEE standard.

Book Information

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Customer Reviews

I think its fascinating that there is such a split between those who love and hate this book. For most books, the review is a bell-shaped curve of star ratings; this one has a peak at 1, a peak at 5, and very little in between. How could this be? I think it is because SICP is a very personal message that works only if the reader is at heart a computer scientist (or willing to become one). So I agree that the book's odds of success are better if you read it after having some experience.To use an

analogy, if SICP were about automobiles, it would be for the person who wants to know how cars work, how they are built, and how one might design fuel-efficient, safe, reliable vehicles for the 21st century. The people who hate SICP are the ones who just want to know how to drive their car on the highway, just like everyone else.Those who hate SICP think it doesn't deliver enough tips and tricks for the amount of time it takes to read. But if you're like me, you're not looking for one more trick, rather you're looking for a way of synthesizing what you already know, and building a rich framework onto which you can add new learning over a career. That's what SICP has done for me. I read a draft version of the book around 1982, when I was in grad school, and it changed the way I think about my profession. If you're a thoughtful computer scientist (or want to be one), it will change your life too.Some of the reviewers complain that SICP doesn't teach the basics of OO design, and so on. In a sense they are right. The book doesn't directly tell you how to design and write an object-oriented program using the subset of object-oriented principles that show up in the syntax of Java or C++.

Structure and Interpretation of Computer Programs - 2nd Edition (MIT Electrical Engineering and Computer Science) Structure and Interpretation of Computer Programs, Second Edition A PROLOG Database System (Electronic & Electrical Engineering Research Studies. Computer Engineering Series ; 3) Electrical Estimating Methods (Means Electrical Estimating, 2nd ed) Transformer and Inductor Design Handbook, Fourth Edition (Electrical and Computer Engineering) McGraw-Hill's National Electrical Code 2014 Handbook, 28th Edition (McGraw Hill's National Electrical Code Handbook) Voice and Speech Processing (Mcgraw Hill Series in Electrical and Computer Engineering) Systems and Control (The Oxford Series in Electrical and Computer Engineering) Study Guide for Fundamentals of Engineering (FE) Electrical and Computer CBT Exam: Practice over 400 solved problems based on NCEESÃ Â® FE CBT Specification Version 9.4 Elements of Electromagnetics (The Oxford Series in Electrical and Computer Engineering) Elements of Power System Analysis (Mcgraw Hill Series in Electrical and Computer Engineering) Data Structure and Algorithmic Thinking with Python: Data Structure and Algorithmic Puzzles Illustrated Guide to the National Electrical Code (Illustrated Guide to the National Electrical Code (Nec)) DEWALT Electrical Code Reference: Based on the 2011 National Electrical Code (DEWALT Series) Insider's Guide to Graduate Programs in Clinical and Counseling Psychology: 2016/2017 Edition (Insider's Guide to Graduate Programs in Clinical & Counseling Psychology) Personal Umbrella Coverage Guide - Interpretation and Analysis: Interpretation and Analysis Wiley Not-for-Profit GAAP 2014: Interpretation and Application of Generally Accepted Accounting Principles (Wiley Not-For-Profit

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