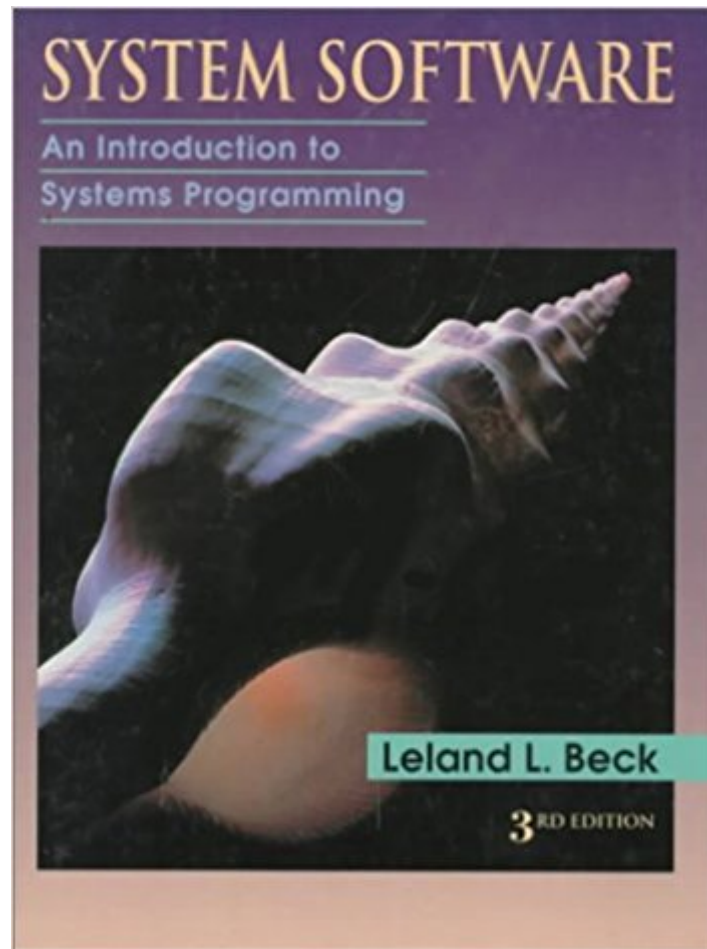




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System Software: An Introduction To Systems Programming (3rd Edition)



Synopsis

In this third edition of classic title, Leland Beck provides a complete introduction to the design and implementation of various types of system software. Stressing the relationship between system software and the architecture of the machine it is designed to support, Beck first presents the fundamental concepts and basic design of each type of software in a machine-independent way. He then discusses both machine-dependent and independent extensions to the basic concepts, and gives examples of the actual system software. New Features Provides updated architecture and software examples, including the Intel x86 family (Pentium, P6, etc.), IBM PowerPC, Sun SPARC, and Cray T3E. Includes an introduction to object-oriented programming and design, and illustrates these concepts of object-oriented languages, compilers, and operating systems. Brings the book up-to-speed with industry by including current operating systems topics, such as multiprocessor, distributed, and client/server systems. Contains a wide selection of examples and exercises, providing teaching support as well as flexibility, allowing you to concentrate on the software and architectures that you want to cover.

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Leland L. Beck is a Professor of Mathematical Sciences and the Coordinator of the Computer Science Program at San Diego State University. Dr. Beck received his Bachelor of Arts in Mathematics/Physics from Rice University, and his Masters and Doctorate degrees in Systems Engineering and Computer Science from Southern Methodist University. His research interests include computer security, operating systems and software engineering. Professor Beck is also the author of System Software: An Introduction to Systems Programming. 0201423006AB04062001

Good

This book, while old, is a good introduction to the SIC/XE assembler. I used it as a reference for my Systems Software class, and it looks like i'll be able to get some use out of it when I take my compiler class as well. I must say, the book could use more reference on how to assemble complete instructions, our professor went over this in class but I found myself wishing that the text had more information on it. All in all not a bad textbook!

This book tells you the fundamentals about systems programming. At first it starts off really strong and informative, giving you details on parts of the computer that does the work while you do more than one task at a time. However, some of the info can be quite lengthy and too detailed it can get dry from time to time. Only get this book if you really need it for your class.

Update image to show first edition

After working on C, C++ and a little bit of Assembly languages, you feel excited about the

knowledge & underlying mechanisms of assemblers, loaders and linkers etc. I have gone through this book and found it extremely helpful in getting the complex concepts of system softwares. I agree with the idea of author to give the concepts on the basis of a hypothetical machine, rather than going into the complex details of any real system. This provides a big scope of the subject, giving you the ability to feel at ease with any system. What I like most in this book is that, its not so big and with just eight chapters, you feel comfortable about the idea of reading the book. I think, its a must to read book for computer science students.

To my opinion, the merit of this book is that it gives good basic knowledge about assembler and loader. Especially, the chapter about loader is very clearly written. I think that it's better than Levin's book (Linkers and Loaders). However, the level of information is too low. If you are under-graduate student and don't have many experience about the assembly programming, this book is helpful to raise your level in system programming. But to experienced engineer, I think it will be a disappointing book. I'd like to recommend this book as the introductory book or the summary of assembler, link and loader, compiler, os, software engineering, and so forth.

I found this book to be a pretty decent guide to understanding basic compilers structures. The reason I give it a four is because it's verbiage was a bit difficult to understand at times. The author begins by using a very novel example of a simple CPU and explains how to write an assembler for it and then a compiler. When you are done reading it you should be able to go off and write a pretty simple assembler, compiler and interpreter. (I did!)

This is an excellent book. However it is not a beginners book. It is primarily a concept orientated tome, and will take a bit of work. While there is many books that claim to show you how computer programs run on a system, those books are mainly concerned with the hardware aspects of systems. This book completely ignores hardware and focuses exclusively on the software, which makes it a rarity. It is definitely worth 5 stars however a 4th edition is certainly due.

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