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

By Leland L. Beck

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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 FeaturesProvides 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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System Software: An Introduction to Systems Programming (3rd Edition) By Leland L. Beck Bibliography

- Sales Rank: #867488 in Books
- Published on: 1996-08-24
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x 1.20" w x 7.50" l, 2.15 pounds
- Binding: Hardcover
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Editorial Review

From the Back Cover

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About the Author

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.**

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