Software Engineering With Abstractions
This book provides a technical introduction to software engineering. It employs a systematic approach that is both formal and practical, and covers the entire software development process. It uses a formal specification language ("Spec") to develop large, real-time, and distributed systems in Ada, and includes a discussion of system evolution and tools for automating software development.

**Book Information**

Hardcover: 640 pages  
Publisher: Addison-Wesley Professional; First Edition edition (July 1, 1991)  
Language: English  
ISBN-10: 0201080044  
Product Dimensions: 6.6 x 1.2 x 9.4 inches  
Shipping Weight: 2.3 pounds  
Average Customer Review: 4.0 out of 5 stars  

**Customer Reviews**

This book is a gentle introduction to formal methods for the design and implementation of software for large systems. It takes you through the whole software cycle and gives practical advice on the use of formal methods to handle the complexity typical of large, real-world applications. The reader is taught to use the formal specification language SPEC and is introduced to logic and other mathematical concepts useful in the design of software. Tools are also available to check the syntax of SPEC specifications, as well as generate Ada specifications directly from SPEC. I became familiar with this book when I took the introductory software engineering course taught by Professor Berzins at the Naval Postgraduate School. I have found this book useful in my real-world applications development.

*Download to continue reading...*

Software Engineering with Abstractions Non-Functional Requirements in Software Engineering