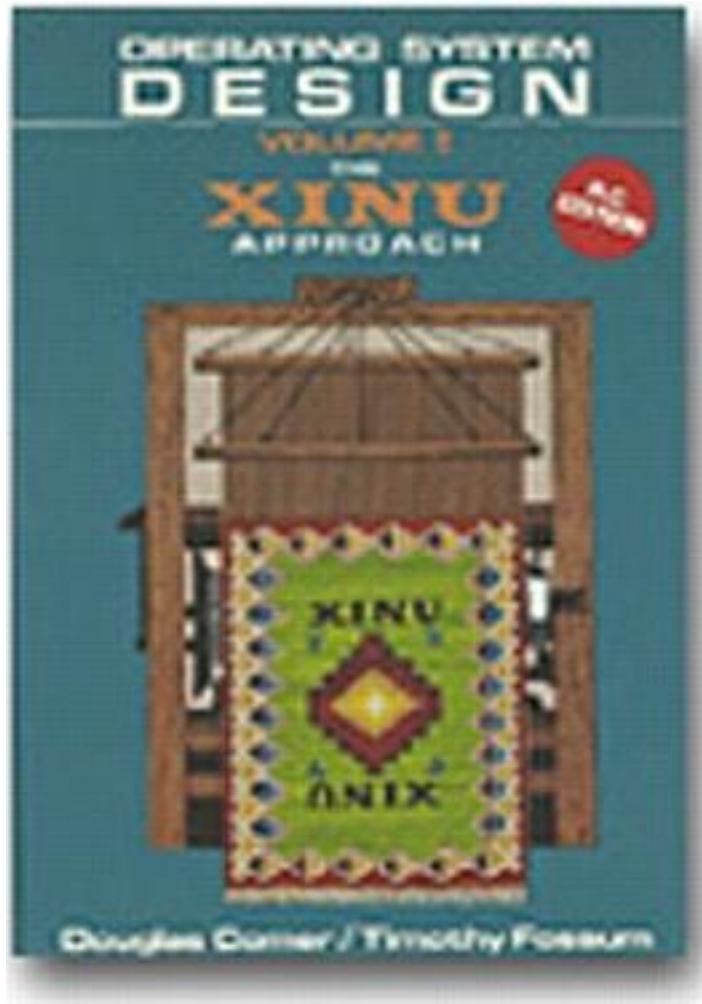


# Operating System Design



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Operating System Design: The Xinu Approach, Linksys Version provides a

comprehensive introduction to Operating System Design, using Xinu, a small, elegant operating system that serves as an example and a pattern for system design. The book focuses the discussion of operating systems on the microkernel operating system facilities used in embedded systems. Rather than introduce a new course to teach the important topics of embedded systems programming, this textbook takes the approach of integrating more embedded processing into existing operating systems courses. Designed for advanced undergraduate or graduate courses, the book prepares students for the increased demand for operating system expertise in industry. Highlights Explains how each operating system abstraction can be built and shows how the abstractions can be organized into an elegant, efficient design Considers each level of the system individually, beginning with the raw hardware and ending with a working operating system Covers every part of the system, so a reader will see how an entire system fits together, not merely how one or two parts interact Provides source code for all pieces described in the text, leaving no mystery about any part of the implementation - a reader can obtain a copy of the system to examine, modify, instrument, measure, extend, or transport to another architecture Demonstrates how each piece of an operating system fits into the design, in order to prepare the reader to understand alternative design choices Beginning with the underlying machine and proceeding step by step through the design and implementation of an actual system, Operating System Design: The Xinu Approach, Linksys Version guides readers through the construction of a traditional process-based operating system using practical, straightforward primitives. It reviews the major system components and imposes a hierarchical design paradigm that organizes the components in an orderly and understandable manner. All of the code in the book is designed to run on the Linksys router, because it is small, inexpensive, and easily accessible to students. Software and instructions for building a lab that allows students to experiment are available on the author's website: [www.xinu.cs.purdue.edu](http://www.xinu.cs.purdue.edu)

作者介绍:

Douglas Comer

美国普度大学计算机系杰出教授，国际公认的计算机网络、TCP/IP协议、Internet和操作系统设计方面的专家。Comer出版了多部优秀的教材和专著，被翻译成16种语言，并广泛用于世界各地的工业界和学术界。Comer教授划时代的三卷巨著《Internetworking with TCP/IP》对网络和网络教育产生了革命性的影响。Comer博士是ACM院士、普度教育学院院士。

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标签

操作系统

计算机科学

编程

xinu

XINU

嵌入式

OS

Operating

评论

简洁的设计，coding非常优雅

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书写的很好，可惜平台太难搭建了，用于了解原理挺好。

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书评

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