

Operating System Concepts

Prerequisite

- Data Structure
- Hardware (Principles of Computer Organization, Architecture of Computer Systems)
- Programming Language: C,C++,Java

Why Study OS?


- Developing system programs
- Developing application programs
- Using a computer

How to study OS?

- 2W+H:
- What: What is OS? Do what?
- Why: Why need OS?
- How: How to work? How to use?

Text book

- Abraham Silberschatz, Operating System Concepts , 8th edition
- 计算机操作系统，汤子赢，西安电子科技大学出版社





OPERATING SYSTEM CONCEPTS

Abraham Silberschatz
Peter Baer Galvin
Greg Gagne

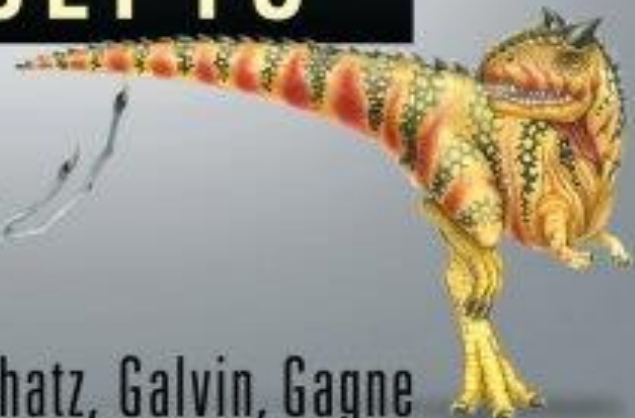
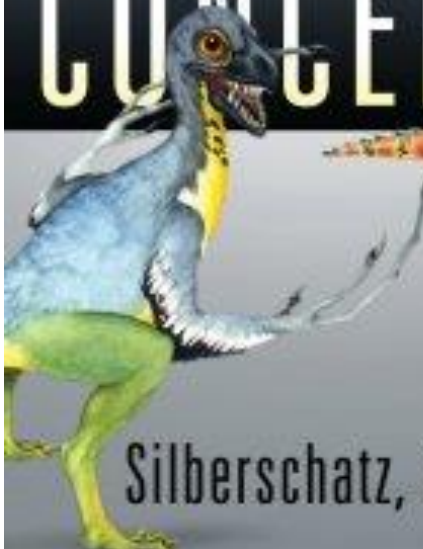



Ninth Edition

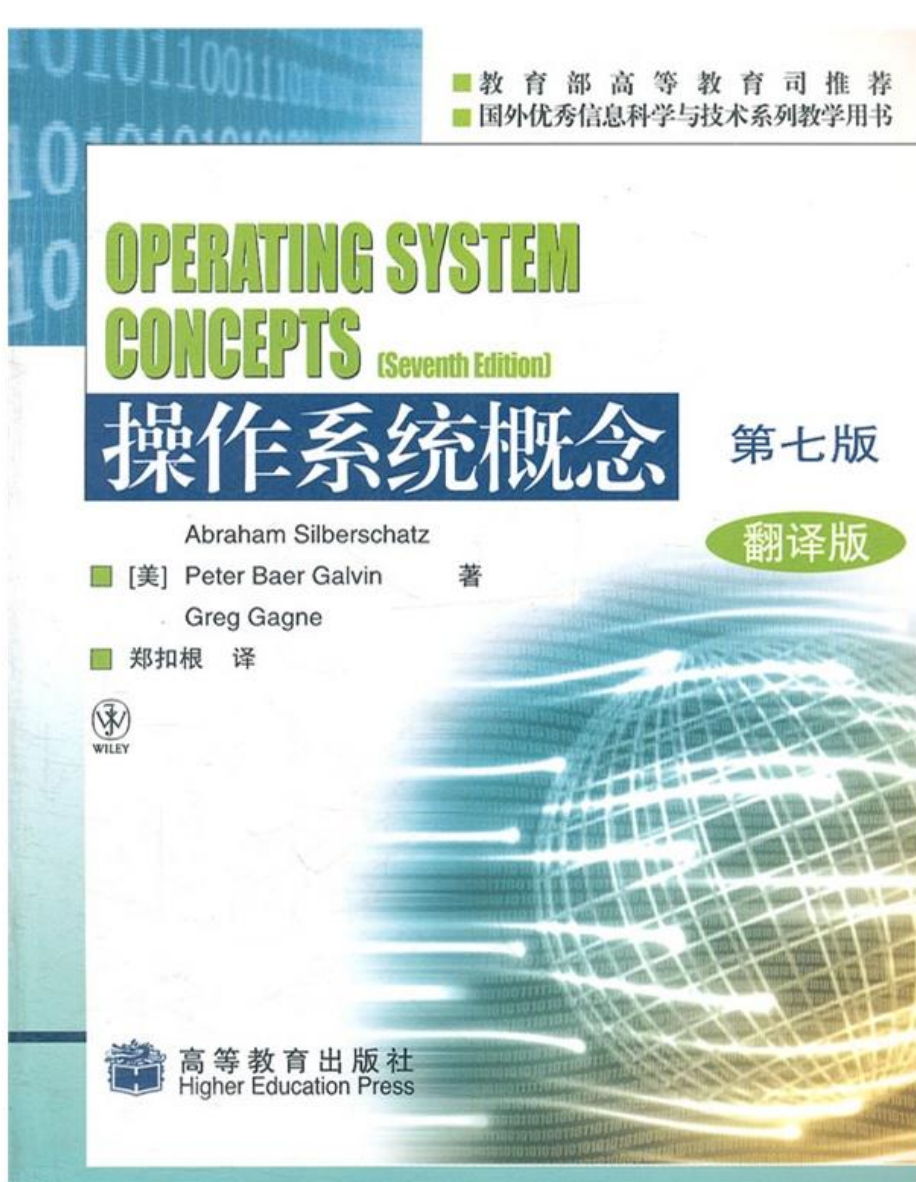
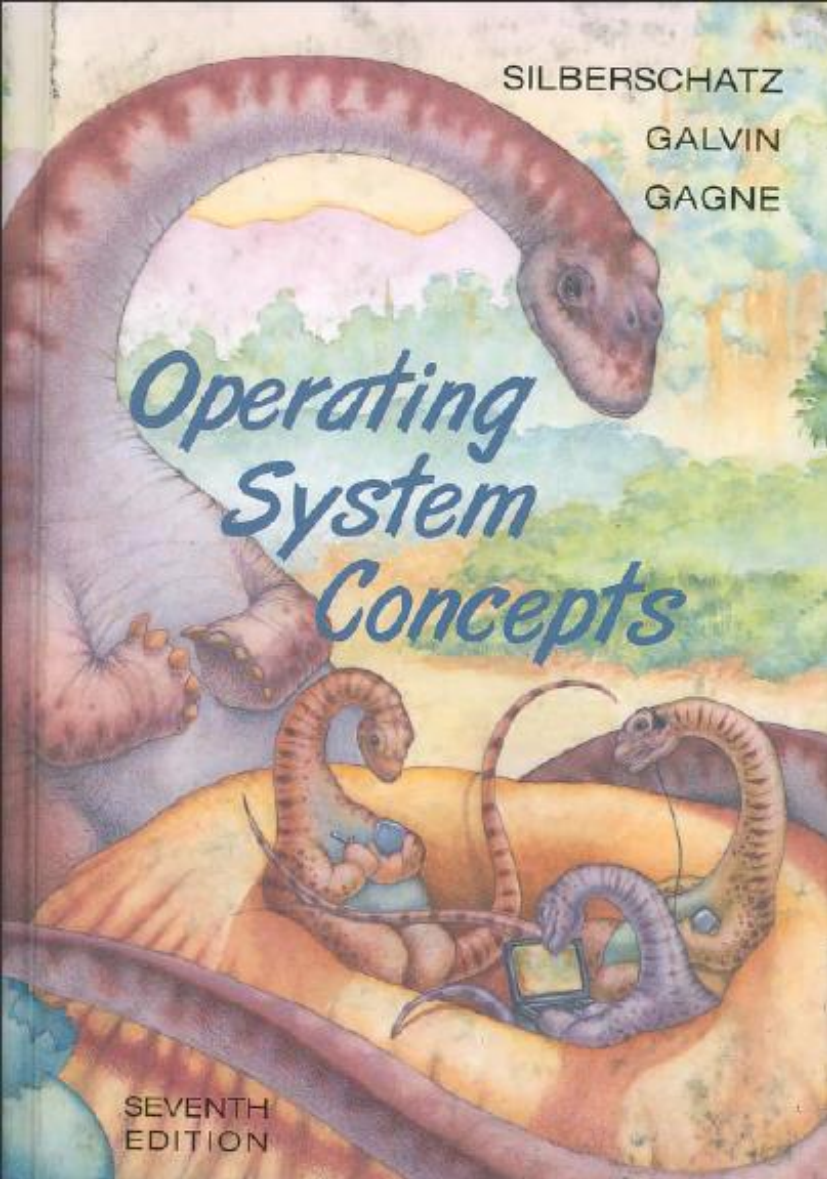
8th Edition



OPERATING SYSTEM CONCEPTS



Silberschatz, Galvin, Gagne



Experiments

Two Platforms: Windows ,Linux.

- Basic Operating Command
- Process Create
- Multiple Threads Create
- Process intercommunication
- Process Synchronization and mutex
- Memory allocation

- Recommended textbook:
Guowei Wu. Operating system Experiment
Guideline ,Dalian University of Technology
Press,2007.10 (操作系统实验教程)

教学目的

- 奠定计算机专业知识基础的目标
 - 了解操作系统概念和结构
 - 掌握操作系统相关算法和技术
- 提升计算机专业动手能力的目标
 - 熟悉操作系统的设计、使用、管理方法
 - 综合程序设计、数据结构、编译原理、计算机原理等知识
- 奠定长远专业发展的目标
 - 塑造创造性思维、建立完整知识体系结构
 - 开拓专业性视野、明确未来专业发展方向