

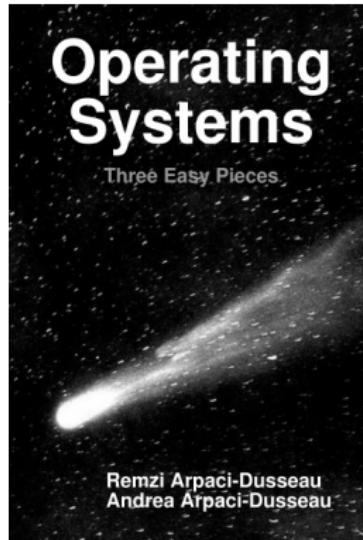
CSE 4253/6253 - Secure Software Engineering

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Study Guide

Mid-Term



- Online in Canvas
- Multiple Choice
- Open Book

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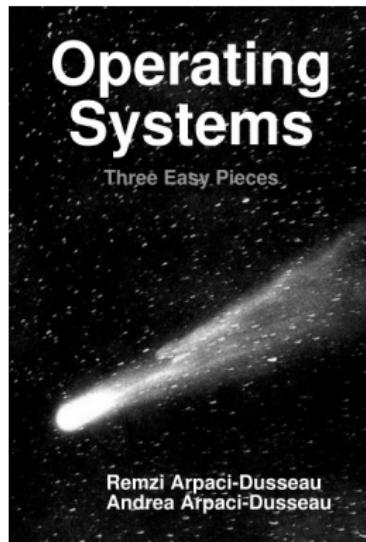
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1. Study is required

- You can't learn the chapters during a test
- Basic history of Operating Systems - Batch vs Timesharing
- Know what a kernel does, relative speeds and be prepared to synthesize

Study Guide

Mid-Term

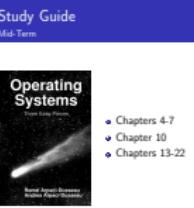


- Chapters 4-7
- Chapter 10
- Chapters 13-22

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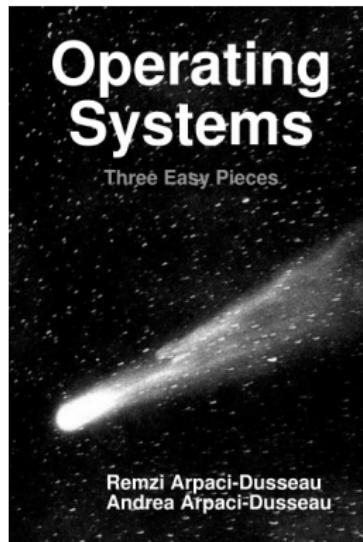
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1. Chapters 4-5
 - Why code the kernel in a high level language?
 - Process state transitions
 - PCB
 - fork() - define and be prepared to follow a code sample
 - C.O.W. - Copy On Write
2. Chapter 6-7,10
 - Barriers/Cooling
 - Locality of Reference/Multi-core/Affinity
 - Deadlock
 - Asymmetric and Symmetric MP
 - Scheduling - Non-preemptive vs Preemptive

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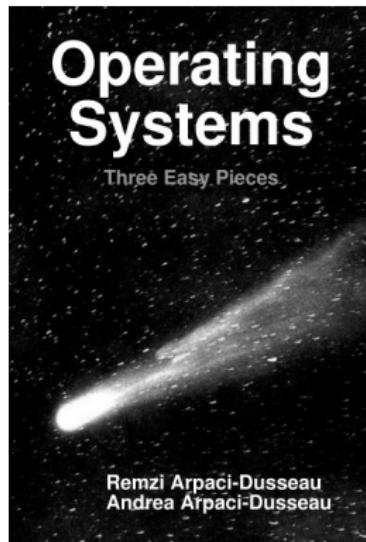
- Chapters 4-7
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1. Chapter 13-17

- Addressing/Translation/MMU
- Memory Fragmentation/Compaction
- Segmentation
- Placement Algorithms (first fit, etc.) expect trace questions.
- Free Space Mgmt

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Mid-Term

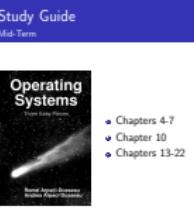


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1. Chapter 18-22

- Page vs Frame
- Paging/Fragmentation
- TLB
- Page Tables
- Swapping
- Algorithms – Clock/LRU/FIFO/Clock/Optimal – Expect trace question(s)