## Operating System

total data scurfer to service signed the execution of application gray sams Contents of a computer of the componer said Hardware > Mem- o CPU, AL U, I/o device PART ONE OVERVIEW Chapter 1 Introduction 11.1 to 1-4 1.9 Protection and Security 29 1.1 What Operating Systems Do 3 1.2 Computer-System Organization 6 1.10 Distributed Systems 30 1.11 Special-Purpose Systems 32 1.3 Computer-System Architecture 12 1.12 Computing Environments 34 1.4 Operating-System Structure 18 1.13 Open-Source Operating Systems 1.5 Operating-System Operations 20 1.14 Summary 40 1.6 Process Management 23 Exercises 42 1.7 Memory Management 24 Bibliographical Notes 46 1.8 Storage Management 25 System Structures 2.1 to 2.6 Chapter 2 2.8 Virtual Machines 76 2.1 Operating-System Services 49 2.9 Operating-System Debugging 84 2.2 User Operating-System Interface 2.10 Operating-System Generation 88 2.3 System Calls 55 2.11 System Boot 89 2.4 Types of System Calls 58 2.12 Summary 90 2.5 System Programs 66 Exercises 91 2.6 Operating-System Design and Bibliographical Notes 97 Implementation 68 2.7 Operating-System Structure 70 PART TWO PROCESS MANAGEMENT Chapter 3 Process Concept [3-1 to 3-4] 3.6 Communication in Client-3.1 Process Concept 101 Server Systems 3.2 Process Scheduling 105 3.3 Operations on Processes 110 3.7 Summary 140 3.4 Interprocess Communication 116 Exercises 141

3.5 Examples of IPC Systems 123

Bibliographical Notes 152

8.7 Example: The Intel Pentium 345

Bibliographical Notes 354

8.8 Summary 349

Exercises 350

xvi

8.2 Swapping 322

8.4 Paging 328

8.3 Contiguous Memory Allocation 324

8.5 Structure of the Page Table 337

Chapter 9 Virtual-Memory Management [9.1 to 9. 9.8 Allocating Kernel Memory 9.1 Background 357 9.9 Other Considerations 399 9.10 Operating-System Examples 405 9.2 Demand Paging 361 9.3 Copy-on-Write 367 9.11 Summary 407 9.4 Page Replacement 369 Exercises 409 9.5 Allocation of Frames 382 Bibliographical Notes 416 9.6 Thrashing 386 9.7 Memory-Mapped Files 390 STORAGE MANAGEMENT PART FIVE ? Slideshare Chapter 10 File System 10.6 Protection 451 10.1 File Concept 421 10.7 Summary 456 10.2 Access Methods 430 Exercises 457 10.3 Directory and Disk Structure 433 Bibliographical Notes 458 10.4 File-System Mounting 444 10.5 File Sharing 446 Implementing File Systems Chapter 11 11.7 Recovery 486 11.1 File-System Structure 461 11.8 NFS 490 11.2 File-System Implementation 464 11.9 Example: The WAFL File System 496 11.3 Directory Implementation 470 11.10 Summary 498 11.4 Allocation Methods 471 Exercises 499 11.5 Free-Space Management 479 Bibliographical Notes 502 11.6 Efficiency and Performance 482 Secondary-Storage Structure 12papter 12 12.7 RAID Structure 522 12.4- Lyo 12.1 Overview of Mass-Storage 12.8 Stable-Storage Implementation Structure 505 12.9 Tertiary-Storage Structure 534 12.2 Disk Structure 508 12.10 Summary 543 12.3 Disk Attachment 509 545 Exercises 12.4 Disk Scheduling 510/ 12.5 Disk Management 516 Bibliographical Notes 12.6 Swap-Space Management 520 Chapter 13 I/O Systems 13.6 STREAMS 580 13.1 Overview 13.2 I/O Hardware 556 13.7 Performance 582 13.3 Application I/O Interface 565 13.8 Summary 585 13.4 Kernel I/O Subsystem 571 Exercises 586 13.5 Transforming I/O Requests to Bibliographical Notes 588 Hardware Operations 578

## Computer Networks

Chapter 1 -s Full Reading Chapter 2 -> 2.1, 2.2, 2.5 > Just Read
2.3, 2.4 -> 2 portant Chapter 3 > Bit rate, Bit length,
Attenuation, Distortion, Woise
, Ny quist Bit rate, Bandwidth,
Throughput, later cy, Titlex Chapter 4 -> Reading upon-upon se (hapter 5 > Just definitions dekhlo Chapter 6 > Easy hai > complete 6.1 6.2 Chapter 7-> Easy Theory -> 7.1 & 7.2 Chapter 10 -> Full Chapter 11 - 3 I postart > Jull

Chapter 12 > Tust worter videos
on Easy Engineering Classes
(Youtuse) Chapter 14 Bluetooth Chapter 160 Normal read marylo bs Chapter 18 -> 18.1 /18.2 c Sirt read Chapter 19 2 Depro Full Chapker 21-3 21.1 & 21-3 Chapke 22 > 22.3 &22.4 Chapter 23 -> 23.1 to 23.3 Chapter 24-3 24.1 to 24-3, 24.6

Chapter 25-> DNS (25.2) Chapter 26 -> SMAIL Chapter 30) Slideshare pe search (31) Krlena, badia notes miljanenge 32.1, 32-4 320 Chapki

## DBMS

Chapter 12 -> Full (Very Important Sir Optional)
Chapter 12 -> 12-1 to 19-5 (Normally packlo to)
Chapter 13 -> X No need
Chapter 13 -> X No need
Chapter 14,15 -> Suportant Full Chapter 9 > Kill (Normal forms What important (napter 5,6) No need Mow to convert Database (napter 7) > De just see Mow to convert Database Chapter 2 > Full Chapter 4 -> (4.1 - 4.5 Chapter 3 - Full Chapter 1 > Introduction to be upon upon se destrito, Jyada ??