Review

Information System

Procedures

Network

Data

Hardware

Software

People

Types of Computers

Personal computers

Super Compuers

Midrange computers

Mainframe computers

Tablet

Notebook

Handheld

Wearable

Desktop

对应章节： 第一章

Program pecification

Program design

Program code

Program test

Program documentation

Program maintenance

software development

Software

System Software

Application Software

Language translators

Utilities

Mobile Apps

specialized applications

general-purpose applications

Operating systems

Device drivers

Troubleshooting

Antivirus

Backup

File compression

Compiler

Interpreter

1. Functions:

Manages resources

Provides user interface

Runs applications

1. Types:

Embedded OS

Stand-alone OS

Network OS

Desktop Publishing

Image Editors

Illustration Programs

Video Editors

Web Authoring

Artificial Intelligence

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Word Processors

Spreadsheets

Presentation Graphics

DBMS

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对应章节： 第三、四、十三章

Hardware

system units

secondary storage

Input & output devices

characteristics

hard disk platters

optical storage

solid-state storage

cloud storage

mass storage

system boards

Output devices

Input devices

memory

processors

keyboard entry

pointing devices

scanning devices

image capturing

audio-input devices

Control unit

Arithmetic-logic unit (ALU)

Registers

1. Display (monitor)

(features and types)

2.Printer

(features and types)

1. combination input and output devices
2. ergonomics

Bus lines

(bus widths, types, expansion buses)

Sockets

Slots

Expansion cards

Ports

ROM

RAM

Flash memory

对应章节： 第五、六、七章

Communications and Networks

Communication Systems

Networks

Sending and receiving devices

Connection devices

Data transmission specifications (Protocol)

communications channels

Internet （APPANET）

WWW (Web1.0-4.0)

electronic commerce

(B2B, B2C, C2C)

IoT

Cloud Computing

Types

Network Topology

Network Strategies

Organizational Networks

Network Security

对应章节： 第二、八章

补充知识点：

Procedures

Procedures

1. 十进制、二进制、八进制、十六进制数的转换；
2. 数的表示（定点小数、定点整数、浮点数）；
3. 机器码：原码、反码、补码