Computing Essentials

- Information system
  - people
  - software
    - system software
    - application software
  - hardware
    - types of Computers
    - Microcomputer Hardware
  - data
- Internet and Web
  - Access
    - providers
    - Browsers
  - Commuication
    - E-mail
    - Instant Message
    - Social Networking
    - Blog
    - Microblogs
    - Webcasts
    - Wikis
  - Search Tools
    - Search Engines
    - Web Directories
    - MetaSearch Engines
    - Content Evalution
  - Electronic Commerce
    - Busnicess-to-Consumer E-Commerce
    - Consumer-to-Consumer E-Commerce
    - Security

- Cloud Computing
- Web Utilities
  - Plug-ins
  - Filters
  - FileTransfer Utilities
  - InternetSecuritySuites
- Application Software
  - Word Processors
    - Features
    - Case
  - Spreadsheets
  - Database Management Systems
  - Presentation Graphics
  - Intergrate Packages
  - Software Suites
    - Productivity Suite
    - Cloud computing
    - Sharing between Programs
    - Specialzed and Utility Suites
- Specialized Software
  - Graphics
    - Desktop Publishing
    - Image Editors
    - Illustration Programs
    - Image Galleries
    - Graphics Suites
  - Audio and Video
  - Multimedia
    - Links and Buttons
    - Multimedia Authoring Programs
  - Web Authoring
    - Web Site Design
    - Web Authoring Programs

- Artificial Intelligence
  - Virtual Reality
  - Knowledge-Based (Expert) Systems
  - Robotics
- Mobile Apps
  - App
  - App Store

- System Software
  - Operating Systems
    - Functions
    - Features
    - Categories
  - Desktop Operating Systems
    - Windows
    - Mac OS
    - UNIX and Linux
    - Virtualization
  - Mobile Operating Systems
  - Utilities
    - Windows Utilities
    - Utility Suites
  - Device Drivers

- THE SYSTEM UNIT
  - Electronic Data and Instructions
    - Numeric Representation
    - Character Encoding
  - System Board
  - Microprocessor
    - Microprocessor Chips
    - Specialty Processors
  - Memory
    - RAM
    - ROM

        - Flash Memory
    - Expansion Slots and Cards
    - Bus Lines
    - Ports
        - Standard Ports
        - Specialized Ports
        - Legacy Ports
        - Cables
- INPUT AND OUTPUT
    - Keyboard Entry
    - Pointing Devices
        - Mice
        - Touch Screens
        - Joysticks
        - Stylus
    - Scanning Devices
        - Optical Scanners
        - Card Readers
        - Bar Code Readers
        - Character and Mark Recognition
        - Devices
    - Image Capturing Devices
        - Digital Cameras
        - Digital Video Cameras
    - Audio-Input Devices
        - Voice Recognition Systems
    - Monitors
    - Printers
    - Audio and Video Devices
    - Combination Input and Output Devices
        - Fax Machines
        - Multifunctional Devices
        - Internet Telephones

- SECONDARY STORAGE
  - Hard Disks
    - Internal Hard Disk
    - External Hard Drives
    - Performance Enhancements
  - Optical Discs
    - Compact Disc
    - Digital Versatile Disc
    - Blu-ray Disc
  - Solid-State Storage
    - Solid-State Drives
    - Flash Memory
    - USB Drives
  - Cloud Storage
  - Mass Storage Devices
    - Enterprise Storage System
    - Storage Area Network
- COMMUNICATIONS AND NETWORKS
  - Communications
    - Connectivity
    - The Wireless Revolution
    - Communication Systems
  - Communication Channels
    - Physical Connections
    - Wireless Connections
  - Connection Devices
    - Modems
    - Connection Service
  - Data Transmission
    - Bandwidth
    - Protocols
  - Networks

- Terms
- Network Types
  - Local Area Networks
  - Home Networks
  - Wireless LAN
- Networking
  - Personal Area Network
  - Metropolitan Area Networks
  - Wide Area Networks
- Network Architecture
  - Topologies
  - Strategies
- Organizational Networks
  - Internet Technologies
  - Network Security

- PRIVACY, SECURITY, AND ETHICS
  - Privacy
    - Large Databases
    - Private Networks
    - The Internet and the Web
    - Online Identity
    - Major Laws on Privacy
  - Security
    - Computer Criminals
    - Computer Crime
    - Other Hazards
    - Measures to Protect Computer Security
  - Ethics
    - Copyright and Digital Rights
    - Management
    - Plagiarism
    - 子主题 4

- 裴豪康

- 计创1801
- 41812211