

OPERATING SYSTEMS & UTILITY PROGRAMS

System Software

- System software consists of the programs that control the operations of the computer and its devices.
- Functions that system software performs include:
 - Starting up the computer.
 - Opening, executing, and running applications.
 - Storing, retrieving, and copying files.
 - Formatting disks.
 - Reducing file sizes.
 - Backing up the contents of a hard disk.
 - Serves as the interface between the user, the application software, and the computer's hardware.
- The two types of system software are **operating systems** and **utility programs**.

Operating Systems

- An **operating system (OS)** is a set of programs containing instructions that coordinate all of the activities among computer hardware resources.
 - A computer cannot function without an operating system.
- An operating system also contains instructions that allow a user to run application software.
 - Application software is written to run with particular operating systems.
 - The operating system is sometimes called the **software platform**.
 - **Cross-platform applications** run identically on more than one operating system.
- The **kernel**, or core, of an operating system is responsible for managing memory, files, and devices; maintaining the computer's clock; starting applications; and assigning the computer's resources.
 - The kernel and other frequently used instructions in the operating system are copied from the storage (e.g., hard disk) to the computer's memory each time when the computer is started up.
 - Any program or command that remains in memory while the computer is running (e.g., the operating system kernel) is called **memory-resident**.

Quiz Yourself Ch4 Operating Systems And Utility Programs Answers

Marc H. Meyer, Frederick G. Crane

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Electric Utility Resource Planning Steven Sim,2023-10-31 In 2012 using easy to understand text and examples the first edition of this book explained how electric utilities work and how they plan or should plan for the future by Creating a hypothetical electric utility Explaining how and why this utility will operate its system of generating units Guiding readers through a planning analysis for the utility examining various resource options solar new gas fueled generation and conservation Introducing four Fundamental Principles of Resource Planning that should guide utilities as they plan for the future The first edition material with significant updates now appears as Part I of the second edition of this book Part II of this book then presents six all new chapters that address the challenges and opportunities of moving toward a zero carbon future Using the same hypothetical utility with its new goal to utilize solar and batteries to serve 100% of its customers energy with zero carbon emissions by a future target year Part II of this book addresses many subjects including The enormous amount of MW of new solar and batteries the utility will need to add Why certain characteristics of new solar and battery additions change as increasing amounts of these resources are added In the years prior to achieving its zero carbon goal how the hourly operation of the utility s existing fossil fueled generators plus the new solar will change and why the stability of the transmission grid will be challenged With this second edition author Dr Steven Sim again applies the experience and insights he gained from more than 30 years of resource planning for Florida Power Light FPL As one of the largest electric utilities in the United States FPL has faced a multitude of resource planning challenges including how to get to zero carbon During this time period Dr Sim performed and directed thousands of analyses designed to address these challenges He also served as an expert witness in dozens of regulatory hearings addressing both the economics of resource options and the non economic impacts air emissions system reliability fuel usage etc associated with these options

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web sep 9 2023 chlorophyll is a pigment present within plants chlorophyll is the key pigment produced by the chloroplasts within the plant cell which initiates photosynthesis the absorption spectrum of chlorophyll is in the visible range from 400 to 700nm this begins with the 400nm meter region where the light is blue to the 700nm region where

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web arrange the colors in the absorption spectrum of chlorophyll in order of their visibility put the most visible color first green yellow orange red violet blue 9 12 below is a bar graph of the percentage of light energy reflected by chlorophyll it was derived from the chlorophyll absorption spectrum

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web chlorophyll a is the main photosynthetic pigment and it is found in chloroplasts in plants outline the difference in absorption of red green and blue light by plants plants predominantly absorb red and blue light but reflect green light

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web of blue and red light of the split spectrum a first action spectrum of photosynthesis was thus described it resembles roughly the absorption spectra of chlorophyll a and b discussed in section 13 4 by the middle of the nineteenth century the key features of plant photosynthesis were known namely that plants could use light energy

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web relate a photon's energy to its wavelength the energy content of a photon is inversely proportional to the wavelength of light as energy of the photon increases the wavelength decreases and vice versa relate the chlorophyll absorption spectra to the photosynthetic action spectrum

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