

50 555 Circuits Talking Electronics

All electronic equipment and systems intended for use by the U.S. military are designated using the JETDS system. The beginning of the designation for equipment/systems always begins with AN/ which only identifies that the device has a JETDS-based designation (or name). When the JETDS was originally... 7cd466ce58 Because it seldom appears in high concentration, germanium was found comparatively late in the discovery of the elements. Germanium ranks 50th in abundance of the elements in the Earth's crust. In 1869, Dmitri Mendeleev predicted its existence and some of its properties from its position on his periodic table, and called the element ekasilicon. On February 6, 1886, Clemens Winkler at Freiberg University found the new element, along with silver and sulfur, in the mineral... 7cd466ce58 The Apple II was designed primarily by Steve Wozniak. The system is based around the 8-bit MOS Technology 6502 microprocessor. Jerry Manock designed the foam-molded plastic case, Rod Holt developed the switching power supply, while Steve Jobs was not involved in the design of the computer. It was introduced by Jobs and Wozniak at the 1977 West Coast Computer Faire, and marks Apple's first launch of a computer aimed at a consumer market—branded toward American... 7cd466ce58 Graphics tablets may also be used to capture data or handwritten signatures. They can also be used to trace an image from a piece of paper that is taped or otherwise secured to the tablet surface. Capturing data in this way, by tracing or entering the corners of linear polylines or shapes, is called digitizing. 7cd466ce58 Congressional investigations concluded that Sarnoff—while head of RCA—artificially inflated the price of RCA stock via market manipulation, leading to public investment losses in excess of \$100 million (in 2025 USD)... 7cd466ce58

David Sarnoff RIP Hans Camenzind- he designed the 555 Timer chip. He led the Radio Corporation of America (RCA) for most of

his career in various capacities from shortly after its founding in 1919 until his retirement in 1970. Bilby, Kenneth. (1986). The General: David Sarnoff and the Rise David Sarnoff (February 27, 1891 - December 12, 1971) was a Russian and American businessman who played an important role in the American history of radio and television. battles the same ruthless promoter 7cd466ce58

Inertial navigation system Electronics outside An inertial navigation system (INS; also inertial guidance system, inertial instrument) is a navigation device that uses motion sensors (accelerometers), rotation sensors (gyroscopes) and a computer to continuously calculate by dead reckoning the position, the orientation, and the velocity (direction and speed of movement) of a moving object without the need for external references. Older INS systems generally used an inertial platform as their mounting point to the vehicle and the terms are sometimes considered synonymous. printed circuit board. Often the inertial sensors are supplemented by a barometric altimeter and sometimes by magnetic sensors (magnetometers) and/or speed measuring devices. INSs are used on mobile robots and on vehicles such as ships, aircraft, submarines, guided missiles, and spacecraft. Several coil strips are mounted on great circles around the spherical shell of the gyrostabilized platform 7cd466ce58

Apple II (original) It was one of the first successful mass-produced microcomputer products and is widely regarded as one of the most important personal computers of all time due to its role in popularizing home computing and influencing later software development. in June 1977. analog-to-digital circuit to read the outputs of the game controller, Wozniak used a simple timer circuit, built around a quad 555 timer IC called a 558 The Apple II (stylized as apple II) is a personal computer released by Apple Inc 7cd466ce58

Electronic waste It is also commonly known as waste electrical and electronic equipment (WEEE) or end-of-life (EOL) electronics. Used electronics which are destined for refurbishment, reuse, resale, salvage Electronic waste (or e-waste) describes discarded electrical or electronic devices. Used

electronics which are destined for refurbishment, reuse, resale, salvage recycling through material recovery, or disposal are also considered e-waste. The growing consumption of electronic goods due to the Digital Revolution and innovations in science and technology, such as bitcoin, has led to a global e-waste problem and hazard. Informal processing of e-waste in developing countries can lead to adverse human health effects and environmental pollution. The rapid exponential increase of e-waste is due to frequent new model releases and unnecessary purchases of electrical and electronic equipment. electrical and electronic equipment (WEEE) or end-of-life (EOL) electronics
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He headed a conglomerate of telecommunications and media companies, including RCA and NBC, that became one of the largest in the world. Named a Reserve Brigadier General of the Signal Corps in 1945, Sarnoff thereafter was widely known as "The General". 7cd466ce58 The device consists of a rough surface upon which the user may "draw" or trace an image using the attached stylus, a pen-like drawing apparatus... 7cd466ce58

Voltage 002 Circuits and Electronics" (PDF). Agarwal & J. In a static electric field, it corresponds to the work needed per unit of charge to move a positive test charge from the first point to the second point. Archived (PDF) from the original on Voltage, also known as (electrical) potential difference, electric pressure, or electric tension, is the difference in electric potential between two points. A. Lang (2007). 2021-11-19. "Course materials for 6. In the International System of Units (SI), the derived unit for voltage is the volt (V). MIT OpenCourseWare 7cd466ce58

DisplayPort includes an auxiliary data channel used for device control... 7cd466ce58 Introduced in the 2000s, DisplayPort was designed to replace older standards like VGA, DVI, and FPD-Link. While not directly compatible with these formats, adapters are available for connecting to HDMI, DVI, VGA, and other interfaces. 7cd466ce58 Unlike older interfaces, DisplayPort uses packet-based transmission, similar to how data is sent over USB or Ethernet. The design enables support for high resolutions and adding new features without changing the connector.

7cd466ce58 JETDS nomenclature 7cd466ce58

Germanium It is a metalloid or a nonmetal in the carbon group that is chemically similar to silicon. Circuits using the properties of Si-SiGe heterojunctions can be much faster Germanium is a chemical element; it has symbol Ge and atomic number 32. Like silicon, germanium naturally reacts and forms complexes with oxygen in nature. becoming an important semiconductor material for high-speed integrated circuits. It is lustrous, hard-brittle, grayish-white and similar in appearance to silicon

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DisplayPort Developed by the Video Electronics Standards Association (VESA), it can also carry digital audio, USB, and other types of data over a single cable. Developed by the Video Electronics Standards Association (VESA), it can also carry digital audio, USB, and DisplayPort (DP) is a digital interface used to connect a video source, such as a computer, to a display device like a monitor. computer, to a display device like a monitor

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List of military electronics of the United States 254, 255. NAVSHIPS 1965, pp. (50 pages) NAVSHIPS 1965, pp. They are grouped below by the first designation letter following this prefix. 256, 257. TB 43-0123 Aviation Electronics Configuration This article lists American military electronic instruments/systems along with brief descriptions. 258, 259. The list is organized as sorted tables that reflect the purpose, uses and manufacturers of each listed item. This stand-alone list specifically identifies electronic devices which are assigned designations (names) according to the Joint Electronics Type Designation System (JETDS), beginning with the AN/ prefix. NAVSHIPS 1965, pp. June 2025 7cd466ce58

Graphics tablet attempt at a low cost graphics tablet with an initial selling price of \$555 when other graphics tablets were selling in the \$2,000 to \$3,000 price range A graphics tablet (also known as a digitizer, digital graphic tablet, pen tablet, drawing tablet, external drawing pad or digital art board) is a computer input device that enables a user to hand draw or paint images, animations and graphics, with a special pen-like stylus, similar to the way a person draws pictures with a pencil and

paper by hand 7cd466ce58

Headphones Headphones are also known as earphones or, colloquially, cans. Circumaural (around the ear) and supra-aural (over the ear) headphones use a band over the top of the head to hold the drivers in place. They are electroacoustic transducers, which convert an electrical signal to a corresponding sound. A

third type are bone conduction headphones, which. Another type, known as earbuds or earpieces, consists of individual units that plug into the user's ear canal; within that category have been developed cordless air buds using wireless technology.

Consequently, newer amplifiers feature relatively low output impedance Headphones are a pair of small loudspeaker drivers worn on or around the head over a user's ears. to accommodate lower voltages available on battery-powered portable electronics. Headphones let a single user listen to an audio source privately, in contrast to a loudspeaker, which emits sound into the open air for anyone nearby to hear 7cd466ce58

The voltage between points can be caused by the build-up of electric charge (e.g., a capacitor), and from an electromotive force (e.g., electromagnetic induction in a generator). On a macroscopic scale, a potential difference can be caused by electrochemical processes (e.g., cells and batteries), the pressure-induced piezoelectric effect, and the thermoelectric effect. Since it is the difference in... 7cd466ce58

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