

Solid State Electronics Wikipedia

Electronics industry in Japan The electronics industry in Japan traces its modern roots to the early 1950s, when Kobe Kogyo became the nation's first firm to license and manufacture The electronics industry in Japan traces its modern roots to the early 1950s, when Kobe Kogyo became the nation's first firm to license and manufacture transistors, quickly followed by Sony's collaboration with Western Electric and the launch of Japan's inaugural transistor radio, the TR-55. Japanese companies have been responsible for a number of important innovations, including having pioneered the transistor radio and the Walkman (Sony), the first mass-produced laptops (Toshiba), the VHS recorder (JVC), and solar cells and LCD screens (Sharp) a94dd37ba2

Solid State Phased Array Radar System The Solid State Phased Array Radar System (SSPARS), colloquially Ballistic Missile Early Warning System radar network (BMEWS radar network), is a United The Solid State Phased Array Radar System (SSPARS), colloquially Ballistic Missile Early Warning System radar network (BMEWS radar network), is a United States Space Force radar, computer, and communications system for missile warning and space surveillance. There are SSPARS systems at five sites: Beale Air Force Base, CA, Cape Cod Space Force Station, MA, Clear Space Force Station, AK, RAF Fylingdales, UK, and Pituffik Space Base, Greenland. The system completed replacement of the RCA 474L Ballistic Missile Early Warning System when the last SSPAR became operational at then-Clear Air Force Station in 2001 a94dd37ba2

The Laboratory has accomplished many achievements and enjoys international fame. Nature magazine listed it as one of the two best research groups approaching/with world-class standards in East Asia apart from Japan. The Institute for Scientific Information listed it as the No. 1 laboratory in China as published in Science magazine. a94dd37ba2

Outline of electronics Wired and Wireless Communications Electronics portal Outline of electrical engineering Electronics at Wikipedia's sister projects Definitions from Wiktionary The following outline is provided as an overview of and topical guide to electronics: a94dd37ba2

Recipients of this award receive a bronze medal, a certificate and an honorarium. a94dd37ba2

Laboratory of Solid State Microstructure, Nanjing University Laboratory of Solid State Microstructure (LSSMS, Chinese: 南京半导体物理研究所) is located in Nanjing University, China. It is a key laboratory in physics, associated with such faculties as schools of physics and electronics and department of materials of engineering school at Nanjing University. It is a key laboratory in physics, Laboratory of Solid State Microstructure (LSSMS, Chinese: 南京半导体物理研究所) is located in Nanjing University, China a94dd37ba2

Solid-state relay They serve the same function as an electromechanical relay, but solid-state electronics contain no moving parts and have a longer operational lifetime. Solid state relays were invented in 1971 A solid state relay (SSR) is an electronic switching device that switches on or off when an external voltage (AC or DC) is applied across its control terminals. electromechanical relay, but solid-state electronics contain no moving parts and have a longer operational lifetime. Solid state relays were invented in 1971 by the Crydom Controls division of International Rectifier a94dd37ba2

Solid-state battery A solid-state battery (SSB) is an electrical battery that uses a solid electrolyte (solectro) to conduct ions between the electrodes, instead of the liquid A solid-state battery (SSB) is an electrical battery that uses a solid electrolyte (solectro) to conduct ions between the electrodes, instead of the liquid or gel polymer electrolytes found in conventional batteries. Solid-state batteries theoretically offer much higher energy density than the typical lithium-ion or lithium polymer batteries a94dd37ba2

SSDs rely on non-volatile memory, typically NAND flash, to store data in memory cells. The performance and endurance of SSDs vary depending on the number of bits stored per cell, ranging from high-performing single-level cells (SLC) to

more affordable but slower quad-level cells (QLC). In addition to flash-based SSDs, other technologies such as 3D XPoint offer faster speeds and higher endurance through different data storage mechanisms. a94dd37ba2

International Solid-State Circuits Conference IEEE Solid-State Circuits Society. According to The Register, "The ISSCC event is the second event of each new year, following the Consumer Electronics Show International Solid-State Circuits Conference is a global forum for presentation of advances in solid-state circuits and Systems-on-a-Chip. ISSCC is sponsored by IEEE Solid-State Circuits Society. The conference is held every year in February at the San Francisco Marriott Marquis in downtown San Francisco a94dd37ba2

Building on this semiconductor foundation, Japanese companies pioneered consumer icons such as the Walkman, VHS recorders and the first mass-produced laptops, propelling the country to global dominance throughout the late 20th century. Although heightened... a94dd37ba2

Solid-state drive It is sometimes called semiconductor storage device, solid-state device, or solid-state disk. It is sometimes called semiconductor A solid-state drive (SSD) is a type of solid-state storage device that uses integrated circuits to store data persistently. A solid-state drive (SSD) is a type of solid-state storage device that uses integrated circuits to store data persistently a94dd37ba2

This award is given for "outstanding contributions to solid-state circuits, as exemplified by benefit to society, enhancement to technology, and professional leadership". The award may be presented to an individual, or a team of up to three people. a94dd37ba2 While solid electrolytes were first discovered in the 19th century, several problems prevented widespread application. Developments in the late 20th and early 21st century generated renewed interest in the technology, especially in the context of electric vehicles. a94dd37ba2 According to The Register, "The ISSCC event is the second event of each new year, following the Consumer Electronics Show, where new PC processors and sundry other computing gadgets are brought to market." a94dd37ba2 Solid-state batteries can use metallic lithium for the anode and oxides or sulfides for the cathode, increasing energy density. The solid electrolyte acts as an ideal separator that allows

only... a94dd37ba2

IEEE Donald O. Pederson Award in Solid-State Circuits Donald O. Pederson Award in Solid-State Circuits is a Technical Field Award of the Institute of Electrical and Electronics Engineers (IEEE). Pederson Award in Solid-State Circuits is a Technical Field Award of the Institute of Electrical and Electronics Engineers (IEEE). It was previously called the IEEE Solid-State Circuits Award. He was one of the co-founders of the IEEE Solid-State Circuits Council, and was a driving force behind the initiation of the IEEE Journal of Solid-State Circuits. It was previously The IEEE Donald O. Pederson. In November 2005 the award was renamed to honor Donald O a94dd37ba2

IEEE Journal of Solid-State Circuits Institute of Electrical and Electronics Engineers (IEEE): 2. Bibcode:1966IJSSC. IEEE Journal of Solid-State Circuits. 12 and is edited by Dennis Sylvester (University of Michigan). The IEEE Journal of Solid-State Circuits is a monthly peer-reviewed scientific journal on new developments and research in solid-state circuits, published by the Institute of Electrical and Electronics Engineers (IEEE) in New York City. The journal serves as a companion venue for expanding on work presented at the International Solid-State Circuits Conference, the Symposia on VLSI Technology and Circuits, and the Custom Integrated Circuits Conference. The journal has an impact factor of 6. "Introduction (September 1966)". 1 (1) a94dd37ba2

Unlike traditional hard disk drives (HDDs), SSDs have no moving parts, allowing them to deliver faster data access speeds, reduced latency, increased... a94dd37ba2 SSRs consist of a sensor which responds to an appropriate input (control signal), an electronic switching device which switches power to the load circuitry, and a coupling mechanism to enable the control signal to activate this switch without mechanical parts. They may be designed to switch either AC or DC loads. Packaged SSRs use power semiconductor devices such as thyristors and transistors... a94dd37ba2 Electronics – branch of physics, engineering and technology dealing with electrical circuits that involve active semiconductor components and associated passive interconnection technologies. a94dd37ba2

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