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Radar move to smaller wavelengths are a number of practical issues. The term radar has since entered English and other languages as an anacronym, a common noun, losing all capitalization. It is a radiodetermination method used to detect and track aircraft, ships, spacecraft, guided missiles, and motor vehicles, and map weather formations and terrain. For one, the electronics needed to produce high power very short wavelengths were generally Radar is a system that uses radio waves to determine the distance (ranging), direction (azimuth and elevation angles), and radial velocity of objects relative to the site. The term RADAR was coined in 1940 by the United States Navy as an acronym for "radio detection and ranging" 6e27a01810

Ammonia, either directly or indirectly, is also a building block for the synthesis of many... 6e27a01810

Organic electronics Organic electronics is a field of materials science concerning the design, synthesis, characterization, and application of organic molecules or polymers Organic electronics is a field of materials

science concerning the design, synthesis, characterization, and application of organic molecules or polymers that show desirable electronic properties such as conductivity. Unlike conventional inorganic conductors and semiconductors, organic electronic materials are constructed from organic (carbon-based) molecules or polymers using synthetic strategies developed in the context of organic chemistry and polymer chemistry 6e27a01810

Among these many approaches is a phytogeomorphological... 6e27a01810

Ammonia A stable binary hydride and the simplest pnictogen hydride, ammonia is a colourless gas with a distinctive pungent smell. Biologically, it is a common nitrogenous waste, and it contributes significantly to the nutritional needs of terrestrial organisms by serving as a precursor to fertilisers. The potential importance of ammonia as a refrigerant has increased Ammonia is an inorganic chemical compound of nitrogen and hydrogen with the formula NH_3 . Around 70% of ammonia produced industrially is used to make fertilisers in various forms and composition, such as urea and diammonium phosphate. It is widely used in fertilizers, refrigerants, explosives, cleaning agents, and is a precursor for numerous chemicals. Ammonia in pure form is also applied directly into the soil. ammonia cooling systems also serve the power electronics in each pair of solar arrays 6e27a01810

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Parallel (operator) reduced sum by Sundaram Seshu in 1956, studied as operator * by Kent E. Erickson in 1959, and popularized by Richard James Duffin and William Niles Anderson The parallel operator 6e27a01810

One of the promised benefits of organic electronics is their potential low cost compared to traditional electronics. Attractive properties of polymeric conductors include their electrical conductivity (which can be varied by the concentrations of dopants) and comparatively high mechanical flexibility. Challenges to the implementation... 6e27a01810 The first high-power electronic devices were made using mercury-arc valves.

In modern systems, the conversion is performed with semiconductor switching devices such as diodes, thyristors, and power transistors such as the power MOSFET and IGBT. In contrast to electronic systems concerned with the transmission and processing of signals and data, substantial amounts of electrical energy are processed in power electronics. An AC/DC converter (rectifier) is the most typical power electronics device found in many consumer electronic devices, e.g. television sets, personal computers, battery chargers, etc. The power range is typically from tens of watts to several hundred watts. In industry, a common...

6e27a01810 The development of systems able to produce... 6e27a01810 (pronounced "parallel", following the parallel lines notation from geometry; also known as reduced sum, parallel sum or parallel addition) is a binary operation which is used as a shorthand in

electrical engineering, but is also used in kinetics, fluid mechanics and financial mathematics. The name parallel comes from the use of the operator computing the combined resistance of resistors in parallel.

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Lithium-ion battery Handheld electronics mostly use lithium A lithium-ion battery, or Li-ion battery, is a type of rechargeable battery that uses the reversible intercalation of Li^+ ions into electronically conducting solids to store energy. Lithium-ion cells can be manufactured to optimize energy density or power density. Also noteworthy is a dramatic improvement in lithium-ion battery properties after their market introduction in 1991; over the following 30 years, their volumetric energy density increased threefold while their cost dropped tenfold. Li-ion batteries are characterized by higher specific energy, energy density, and energy efficiency and a longer cycle life and calendar life than other types of rechargeable batteries. chemistries; see List of battery types. In late 2024 global demand passed 1 terawatt-hour per year, while production capacity was more than twice that

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The use of a magnetic core can increase the strength of magnetic field in an electromagnetic coil by a factor of several hundred times what it would be without the core... 6e27a01810

Precision agriculture " It is used in both crop and livestock production. The goal of precision agriculture research is to define a decision support system for whole farm management with the goal of optimizing returns on inputs while preserving resources. more or less productive. The Internet of things is the network of physical objects outfitted with electronics that enable data collection and aggregation Precision agriculture (PA) is a management strategy that gathers, processes and analyzes temporal, spatial and individual plant and animal data and combines it with other information to support management decisions according to estimated variability for improved resource use efficiency, productivity, quality, profitability and sustainability of agricultural production. Precision agriculture often employs technologies to automate agricultural operations, improving their diagnosis, decision-making or performing

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History of radar True radar which provided directional and ranging information, such as the British Chain Home early warning system, was developed over the next two decades. 165546 in 1904). This possibility was suggested in James Clerk Maxwell's seminal work on electromagnetism. back-pack and wheeled-cart versions with pulse-power up to a kilowatt. With continued development of electronics, systems with pulse durations measured in The history of radar (where radar

stands for radio detection and ranging) started with experiments by Heinrich Hertz in the late 19th century that showed that radio waves were reflected by metallic objects. However, it was not until the early 20th century that systems able to use these principles were becoming widely available, and it was German inventor Christian Hülsmeyer who first used them to build a simple ship detection device intended to help avoid collisions in fog (Reichspatent Nr 6e27a01810

A radar system consists of a transmitter producing electromagnetic waves in the radio or microwave domain, a transmitting antenna, a receiving antenna (often the same antenna is used for transmitting and receiving) and a receiver and processor... 6e27a01810 || 6e27a01810 The invention and commercialization of Li-ion batteries has had a large impact on technology... 6e27a01810

Magnetic core Erickson, Robert; Maksimović, Dragan (2001). ISBN 9780852968338. 195.). The magnetic field is often created by a current-carrying coil of wire around the core. Fundamentals of Power Electronics, Second Edition. p. IET. It is made of ferromagnetic metal such as iron, or ferrimagnetic compounds such as ferrites. The high permeability, relative to the surrounding air, causes the magnetic field lines to be concentrated in the core material. Kluwer Academic Publishers A magnetic core is a piece of magnetic material with a high magnetic permeability used to

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confine and guide magnetic fields in electrical, electromechanical and magnetic devices such as electromagnets, transformers, electric motors, generators, inductors, loudspeakers, magnetic recording heads, and magnetic assemblies

Power electronics Power electronics is the application of electronics to the control and conversion of electric power. The first high-power electronic devices were made Power electronics is the application of electronics to the control and conversion of electric power

List of Korean inventions and discoveries In particular, the country has played a role in the modern Digital Revolution through its large electronics industry with a number of modern revolutionary and widespread technologies in fields such as electronics and robotics introduced by Korean engineers, entrepreneurs, inventors, and scientists. "The Touching History of Touchscreen Tech". Mashable. Retrieved 5 April 2017. Erickson, Christine (9 November 2012). The Koreans have made contributions across a number of scientific and technological domains. In the contemporary era, South Korea plays an active role in the ongoing Digital Revolution, with one of the largest electronics industries and most innovative economies in the world. "The Clear Future of Electronics: This is a list of Korean inventions and discoveries; Koreans have made contributions to science and technology from

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ancient to modern times 6e27a01810

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