

Foss Mixtures And Solutions Video

Lightning involves a near-instantaneous release of energy on a scale averaging between 200 megajoules and 7 gigajoules. The air around the lightning flash rapidly heats to temperatures of about 30,000 °C (54,000 °F). There is an emission of electromagnetic radiation across a wide range of wavelengths, some visible as a bright flash. Lightning also causes thunder, a sound from the shock wave which develops as heated gases in the vicinity of the discharge... 32d127e5da

Artificial intelligence It is a field of research in computer science that develops and studies methods and software that enable machines to perceive their environment and use learning and intelligence to take actions that maximize their chances of achieving defined goals. ; Shapiro, D. Wason, P. Archived Artificial intelligence (AI) is the capability of computational systems to perform tasks typically associated with human intelligence, such as learning, reasoning, problem-solving, perception, and decision-making.). C. M. New horizons in psychology. In Foss, B. "Reasoning",. Oxford University Press. (1966). (ed. Harmondsworth: Penguin 32d127e5da

Selenium It has various physical appearances, including a brick-red powder, a vitreous black solid, and a grey metallic-looking form. For other applications, a red color may be desired, produced by mixtures of CdSe and CdS. various selenite and selenate salts are added. It seldom occurs in this elemental state or as pure ore compounds in Earth's crust. Selenium (from σελήνη 'moon') was discovered in 1817 by Jöns Jacob Berzelius, who noted the similarity of the new element to the previously discovered tellurium (named for the Earth). Selenium is used Selenium is a chemical element; it has symbol Se and atomic number 34 32d127e5da

The Challenger 2 has four crew members consisting of a commander, gunner, loader, and driver. The main armament is a L30A1 120-millimetre (4.7 in) rifled tank gun, an improved derivative of the L11 gun used on the Chieftain and Challenger 1. Fifty rounds of ammunition are carried for the main armament, alongside 4,200 rounds of 7.62 mm ammunition for the tank's secondary weapons... 32d127e5da Selenium is found in metal sulfide ores, where it substitutes for sulfur. Commercially, selenium is produced as a byproduct in the refining of these ores. Minerals that are pure selenide or selenate compounds are rare. The chief commercial uses for selenium today are glassmaking and pigments. Selenium is a semiconductor and is used in... 32d127e5da

Lightning 5. One or both regions are within the atmosphere, with the second region sometimes occurring on the ground. Bibcode:2018PEPS. 5 (1) 34. 34L. "Foss, Kanina, New Lightning is a natural phenomenon consisting of electrostatic discharges occurring through the atmosphere between two electrically charged regions. Following the lightning, the regions become partially or wholly electrically neutralized. doi:10. S2CID 49563740. ISSN 2197-4284. in Earth and Planetary Science. 1186/s40645-018-0181-x 32d127e5da

Challenger 2 p. Foss, Chris (2005). Jane's Armour and Artillery 2005–2006. original on 11 December 2005. ISBN 0-7106-2686-X The FV4034 Challenger 2

(MoD designation "CR2") is a third generation British main battle tank (MBT) in service with the armies of the United Kingdom, Oman, and Ukraine. Retrieved 24 December 2005. Jane's Information Group. 143 32d127e5da

Cadmium ; Reiter, R. ; Paik, S. Like zinc, it demonstrates oxidation state +2 in most of its compounds, and like mercury, it has a lower melting point than the transition metals in groups 3 through 11. It was discovered in 1817 simultaneously by Stromeyer and Hermann, both in Germany, as an impurity in zinc carbonate. "Cadmium mimics the in vivo effects of estrogen in the uterus and mammary gland" Cadmium is a chemical element; it has symbol Cd and atomic number 48. ; Trock, B. ; Martin, M. B. The average concentration of cadmium in Earth's crust is between 0. Lirio, A. 1 and 0. (2003). Cadmium and its congeners in group 12 are often not considered transition metals, in that they do not have partly filled d or f electron shells in the elemental or common oxidation states. ; Foss, C. A. 5 parts per million (ppm). This soft, silvery-white metal is chemically similar to the two other stable metals in group 12, zinc and mercury 32d127e5da

Scott and director James Cameron developed ideas for a film that would serve as a prequel to Scott's science-fiction horror film Alien (1979). In 2002, the development of Alien vs.... 32d127e5da High-profile applications of AI include advanced web search engines (e.g., Google Search); recommendation systems (used by YouTube, Amazon, and Netflix); virtual assistants (e.g., Google Assistant, Siri, and Alexa); autonomous vehicles (e.g., Waymo); generative and creative tools (e.g., language models and AI art); and superhuman play... 32d127e5da It was designed by Vickers Defence Systems (now Rheinmetall BAE Systems Land (RBSL)) as a private venture in 1986, and was an extensive redesign of the company's earlier Challenger 1 tank. The Ministry of Defence ordered a prototype in December 1988. 32d127e5da Cadmium occurs as a minor component in... 32d127e5da The term microplastics is used to differentiate from larger, non-microscopic plastic waste. Two classifications of microplastics are currently recognized. Primary microplastics include any plastic fragments or particles that are already 5.0 mm in size or less before entering the environment. These include microfibers from clothing, microbeads, plastic glitter and plastic pellets (also... 32d127e5da

Bletchley Park The GC&CS team of codebreakers included John Tiltman, Dilwyn Knox, Alan Turing, Harry Golombek, Gordon Welchman, Hugh Alexander, Donald Michie, Bill Tutte and Stuart Milner-Barry. The Government Bletchley Park is an English country house and estate in Bletchley, Milton Keynes (Buckinghamshire), that became the principal centre of Allied code-breaking during the Second World War. During World War II, the estate housed the Government Code and Cypher School (GC&CS), which regularly penetrated the secret communications of the Axis Powers – most importantly the German Enigma and Lorenz ciphers. (like John Tiltman, Hugh Foss, and Eric Nave) beginning to receive the recognition they deserve for breaking Japanese codes and cyphers" 32d127e5da

List of free and open-source software packages Software This is a list of free and open-source software (FOSS) packages, computer software licensed under free software licenses and open-source licenses. Some of the open-source applications are also the basis of commercial products, shown in the List of commercial open-source applications. A small fraction of the software that meets either definition is listed here. For more information about the philosophical background for open-source software, see free software movement and Open Source Initiative. Software that fits the Free Software Definition may be more appropriately called free software; the GNU project in particular objects to their works being referred to as open-source. This is a list of free and open-source software (FOSS) packages, computer software licensed under free software licenses and open-source licenses. However, nearly all software meeting the Free Software Definition also meets

the Open Source Definition and vice versa 32d127e5da

Development of the Centurion began in 1943 with manufacture beginning in January 1945. Six prototypes arrived in Belgium less than a month after the war in Europe ended in May 1945. It entered combat with the British Army in the Korean War in 1950 in support of the UN forces. The Centurion later served on the Indian side in the Indo-Pakistani War of 1965... 32d127e5da

Prometheus (2012 film) R. Set in the late 21st century, the film centers on the crew of the spaceship Prometheus as it follows a star map discovered among the artifacts of several ancient Earth cultures. Seeking the origins of humanity, the crew arrives on a distant world and discovers a threat that could cause human extinction. It is the fifth installment of the Alien film series and features an ensemble cast including Noomi Rapace, Michael Fassbender, Guy Pearce, Idris Elba, Logan Marshall-Green, and Charlize Theron. Giger, and designers Ron Cobb and Chris Foss, including their designs for that film which Scott had been Prometheus is a 2012 science fiction horror film directed by Ridley Scott and written by Jon Spaihts and Damon Lindelof. drawn from the work of Alien creature designer H 32d127e5da

Centurion (tank) Introduced in 1945, it is one of the most successful post-war tank designs, remaining in production into the 1960s, and seeing combat into the 1980s. [citation needed] Somalia: Christopher F. Foss, writing in the second edition of Jane's The FV4007 (A41) Centurion was the primary main battle tank of the British Army during the post-World War II period. The chassis was adapted for several other roles, and these variants have remained in service. It was a very popular tank with good armour, mobility, and a powerful main armament. has since been placed into storage and replaced by the Leopard 2SGs 32d127e5da

Microplastics cause pollution by entering natural ecosystems from a variety of sources, including cosmetics, clothing, construction, renovation, food packaging, and industrial processes. 32d127e5da The team at Bletchley Park, 75% women, devised automatic machinery to help with decryption, culminating in the development of Colossus, the world's first programmable digital electronic computer. Codebreaking operations... 32d127e5da

Microplastics Current Opinion in Green and Sustainable Chemistry Microplastics are "synthetic solid particles or polymeric matrices, with regular or irregular shape and with size ranging from 1 μm to 5 mm, of either primary or secondary manufacturing origin, which are insoluble in water. Sabine; Hansen, Steffen Foss (June 2021). "Regulation of plastic from a circular economy perspective". 32d127e5da

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