

Mechanical Engineering Terminology

Engineering physics In many languages Engineering physics (EP), sometimes engineering science, is the field of study combining pure science disciplines (such as physics, mathematics, chemistry) and engineering disciplines (computer, nuclear, electrical, aerospace, medical, materials, mechanical, etc.). mathematics, chemistry) and engineering disciplines (computer, nuclear, electrical, aerospace, medical, materials, mechanical, etc.) 09b4f23318

Engineering design process The process is highly iterative – parts of the process often need to be repeated many times before another can be entered – though the part(s) that get iterated and the number of such cycles in any given project may vary. Different terminology employed may have varying degrees of

overlap, which The engineering design process, also known as the engineering method, is a common series of steps that engineers use in creating functional products and processes. that there are various framings/articulations of the engineering design process 09b4f23318

in mechanical engineering, the space between a bolt and a nut or a hole, etc. 09b4f23318 Dimensions, properties, or conditions may have some variation without significantly affecting functioning of systems, machines, structures, etc. A variation beyond the tolerance (for example, a temperature that is too hot or too cold) is said to be noncompliant, rejected, or exceeding... 09b4f23318

Mechanical-electrical analogies James Clerk Maxwell introduced analogies of this sort in the 19th century. Mechanical-electrical analogies are developed Mechanical-electrical analogies are the representation of mechanical systems as electrical networks. Theoretical developments in the electrical domain that were particularly useful were the representation of an electrical network as an abstract topological diagram (the circuit diagram) using the lumped element model and the ability of network analysis to synthesise a network to meet a

prescribed frequency function. However, as electrical network analysis matured it was found that certain mechanical problems could more easily be solved through an electrical analogy. For this reason domain-neutral terminology is preferred when developing network diagrams for control systems. At first, such analogies were used in reverse to help explain electrical phenomena in familiar mechanical terms 09b4f23318

The terms programmer and coder overlap software engineer, but they imply only the construction aspect of a typical software engineer workload. 09b4f23318 Electrical engineering is divided into a wide range of different fields, including computer engineering, systems engineering, power engineering, telecommunications, radio-frequency engineering, signal processing, instrumentation, photovoltaic cells, electronics, and optics and photonics. Many of these disciplines overlap with other engineering branches, spanning a huge number of specializations including... 09b4f23318 It is a decision making process (often iterative) in which the engineering sciences, basic sciences and mathematics are applied to convert resources optimally to meet a stated objective. Among the fundamental elements of the design process are the

establishment of objectives and criteria, synthesis, analysis, construction, testing and evaluation. 09b4f23318 This glossary of mechanical engineering terms pertains specifically to mechanical engineering and its sub-disciplines. For a broad overview of engineering, see glossary of engineering. 09b4f23318 in engineering and safety, a physical distance or space (tolerance), as in a truck (lorry), train or boat under a bridge as well as a train in a tunnel (see structure gauge and loading gauge); 09b4f23318 In many languages, the term technical physics is also used. 09b4f23318 other measured values (such as temperature, humidity, etc.); 09b4f23318 It has been used since 1861, after being introduced by the German physics teacher J. Frick in his publications. 09b4f23318 Environmental engineering applies scientific and engineering principles to improve and maintain the environment to protect human health, protect nature's beneficial ecosystems, and improve environmental-related enhancement of the... 09b4f23318

Software engineering maintenance of software. "—IEEE Standard Glossary of Software Engineering Terminology "An engineering discipline that is concerned with all aspects of software Software engineering is a branch of both

computer science and engineering focused on designing, developing, testing, and maintaining software applications. It involves applying engineering principles and computer programming expertise to develop software systems that meet user needs 09b4f23318

a measured value or physical property of a material, manufactured object, system, or service; 09b4f23318

Environmental engineering environmental engineering include natural resources engineering and agricultural engineering. While on the part of civil engineering, the Environmental Engineering is focused mainly on Sanitary Engineering. It encompasses broad scientific topics like chemistry, biology, ecology, geology, hydraulics, hydrology, microbiology, and mathematics to create solutions that will protect and also improve the health of living organisms and improve the quality of the environment. Courses for students fall into a few broad classes: Mechanical engineering Environmental engineering is a professional engineering discipline related to environmental science. Environmental engineering is a sub-discipline of civil engineering and chemical engineering 09b4f23318

a physical dimension; 09b4f23318 A software engineer applies a software development process, which involves defining, implementing, testing, managing, and maintaining software systems, as well as developing the software development process itself. 09b4f23318

Electrical engineering electrical engineering graduates in 1885. The first course in electrical engineering was taught in 1883 in Cornell's Sibley College of Mechanical Engineering and Electrical engineering is an engineering discipline concerned with the study, design, and application of equipment, devices, and systems that use electricity, electronics, and electromagnetism. It emerged as an identifiable occupation in the latter half of the 19th century after the commercialization of the electric telegraph, the telephone, and electrical power generation, distribution, and use 09b4f23318

Engineering tolerance Dimensions, Engineering tolerance is the permissible limit or limits of variation in:. a train in a tunnel (see structure gauge and loading gauge); in mechanical engineering, the space between a bolt and a nut or a hole, etc 09b4f23318

Chief mechanical engineer was responsible for all engineering functions: civil, which included bridges, viaducts, tunnels and track; and, later, mechanical, which included rolling Chief mechanical engineer and locomotive superintendent are titles applied by British, Australian, and New Zealand railway companies to the person ultimately responsible to the board of the company for the building and maintaining of the locomotives and rolling stock. In Britain, the post of locomotive superintendent was introduced in the late 1830s, and chief mechanical engineer in 1886 09b4f23318

Ira A. Fulton College of Engineering The college awards about 700 degrees every year (600 BS, 90 MS, 18 PhD) and has almost 3,600 students. Fulton College of Engineering represents Brigham Young University's (BYU) engineering discipline and includes departments of chemical, civil & construction, electrical & computer, manufacturing, and mechanical engineering along with the technology and engineering studies program. The college awards about 700 The Ira A. electrical & computer, manufacturing, and mechanical engineering along with the technology and engineering studies program 09b4f23318

Glossary of mechanical engineering You can help enhance this page by adding new terms or writing definitions for existing ones. For a broad overview of engineering, see glossary Most of the terms listed in Wikipedia glossaries are already defined and explained within Wikipedia itself. However, glossaries like this one are useful for looking up, comparing and reviewing large numbers of terms together. glossary of mechanical engineering terms pertains specifically to mechanical engineering and its sub-disciplines 09b4f23318

This approach is especially useful in... 09b4f23318

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