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Chapter 1 : Engineering : Paper Presentation Topics For Mechanical Engineering

This post lists latest presentation topics for Mechanical engineering. These topics have been picked from wide areas of Mechanical Engineering like Robotics, Automobiles, Nano Technology etc.

Comparison of conventional and Abrasive water jet machining Here with what is water Jet and Introduction of water Jet. Additionally, since nitrous oxide is stored as a liquid, the evaporation of liquid nitrous oxide in the intake manifold causes a large drop in intake charge temperature. This results in a smaller, denser charge, and can reduce detonation, as well as increase power available to the engine. It can be wearable by the user which means that it can be perceived as part of the natural body and should replicate sensory-motor capabilities of the natural hand. However, such an ideal bionic prosthesis is still far from reality. Free Download biomechatronic hand documentation Full Seminar Report Automatic transmission An automatic transmission is a device, which changes gear ratios automatically, according to the increase or decrease in speed and load of the engine. This ensures that the engine is running at its efficient speed to deliver maximum efficiency. There are two main types of automatic transmissions, the planetary gear type and the continuously variable type. This report gives a description about the working and the components present. Unleashed through a fusion reactor of some sort, the energy from 1 gram of deuterium, an isotope of hydrogen, would be equivalent to that produced by burning liters of gasoline. The idea sonofusion technically known as acoustic inertial confinement fusion was derived from related phenomenon sonoluminescence. In sonofusion a piezoelectric crystal attached to liquid filled Pyrex flask send pressure waves through the fluid, exciting the motion of tiny gas bubbles. The bubbles periodically grow and collapse, producing visible flashes of light. The researchers studying these light emitting bubbles speculated that their interiors might reach such high temperature and pressure they could trigger fusion reaction. Tiny bubbles imploded by sound waves can make hydrogen nuclei fuse- and may one day become a revolutionary new energy source. Cryogenic grinding technology can efficiently grind most tough materials and can also facilitate Cryogenic recycling of tough composite materials and multi component scrap. It employs a cryogenic process to embrittle and grind materials to achieve consistent particle size for a wide range of products. The cryogenic process also has a unique capability for recycling difficult to separate composite materials. Free Download Cryogenic Grinding documentation Full Seminar Report Ejection Seat For Safely Landing Almost since the first days of flight man has been concerned with the safe escape from an aircraft which was no longer flyable. Early escape equipment consisted of a recovery parachute only. As aircraft performance rapidly increased during World War II, it became necessary to assist the crewmen in gaining clear safe separation from the aircraft. This was accomplished with an ejector seat which was powered by a propellant driven catapult - the first use of a propulsive element in aircrew escape. Ejection seats are one of the most complex pieces of equipment on any aircraft, and some consist of thousands of parts. The purpose of the ejection seat is simple: To lift the pilot straight out of the aircraft to a safe distance, then deploy a parachute to allow the pilot to land safely on the ground.

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Chapter 2 : Seminar Topics for Mechanical Engineering with ppt

List of paper presentation for mechanical engineering students: Download collection of paper presentation for mechanical engineering students for free of cost. Paper presentations listed here are part of previous year mechanical engineering students who used these topics for there presentations which will be useful as reference.

Presentations are provided at the end of each article. Magnetic refrigeration Details Refrigeration is the process of removing heat from an enclosed space or from a substance and transferring it to a place where it is unobjectionable. Magnetic refrigeration, based on the magneto caloric effect MCE , has recently received increased attention as an alternative to the well-established vapor compression refrigerators for room-temperature applications. Conventional refrigeration systems are causing a great threat to the nature. We all are aware of the impact of refrigerants such as cfcs, hfcs, etc. It is mainly because of the non-availability of an alternative technology that is cost efficient. Incineration coupled with high temperature waste treatments are recognized as thermal treatments. During the process of incineration, the waste material that is treated is converted in to IBM, gases, particles and heat. These products are later used for generation of electricity. The gases, flue gases are first treated for eradication of pollutants before going in to atmosphere. Experimental set up is mounted on a single platform. The Hilton Heat Pump is designed solely for educational purpose and data in qualitative form can be obtained for analysis of the heat pump. It consists of Autocollimator Details Autocollimators are used to detect small misalignments. If a parallel beam of light is projected from the collimating lens and if a plane reflector R is set up normal to the direction of the beam, light will be reflected back along the same path and light will be brought back to focus exactly at the position of the light source Details Type of Brakes Service Brake: EP friction brake, Load weighed Parking Brake: Spring applied, air-release parking brake Holding Brake: EP friction brake BP Brake pipe -back up brake: Pneumatic friction brake Vacuum Brakes Details A moving train contains energy, known as kinetic energy, which needs to be removed from the train in order to cause it to stop. The simplest way of doing this is to convert the energy into heat. The conversion is usually done by applying a contact material to the rotating wheels or to discs attached to the axles. The material creates friction and converts the kinetic energy into heat. The wheels slow down and eventually the train stops. The material used for braking is normally in the form of a block or pad. These systems are known as "air brakes" or "pneumatic brakes". The compressed air is transmitted along the train through a "brake pipe". Changing the level of air pressure in the pipe causes a change in the state of the brake on each vehicle. It can apply the brake, release it or hold it "on" after a partial application. The system is in widespread use throughout the world. Hexapod Robots Details This paper emphasis the need for developing the legged robots rather than wheeled robots. Over the undulated surfaces, robot movement with wheels becomes difficult. For working and exploring in unknown and rough terrain the use of legged robots is advantageous because their movement is less constrained by the shape of the surface on which they have to travel. The anti-personnel mines of over million is injuring or killing more than people a month. Under this ultimate environment, a walking robot may be an effective and efficient means of detecting and removing mines while ensuring the safety of local residents and people engaged in the removal work. Hence, insect movement with legs is considered most stable. The present paper proposes an improved six-legged walking robot. Fabrication And Performance Evaluation Of the Solar Still Details Energy is the basic input required to sustain economic growth and to provide basic amenities of life to the entire population of a country. Energy can be an effective weapon in the battle against abject poverty in the country like India. Like other developing countries, India is also in the process of planning and development as such needs a quantum of energy for its development plans. It is the level and pattern of utilization of energy from different sources in any country, which is an index of industrial development and standard of living. Basically energy is utilized in four key sectors of our economy namely Agriculture, industry, commercial and the households. Due to increasing gap between demand and supply of energy there is an urgent need to utilize the different forms of

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non-conventional energy sources such as solar, wind, biomass etc. Among these energy sources one of the most important sources is solar energy. Rapid Prototyping Details Machining is a subtractive process, beginning with a solid piece of stock. The machinist must carefully remove material until the desired geometry is achieved. For complex part geometries, this is an exhaustive, time consuming, and expensive process. Some parts are even too complex to be machined. Rapid Prototyping is a method in which the part is created by a layer-additive process. Using a specialized software, a 3-D CAD model is cut into very thin layers or cross-sections. Then, depending on the specific method used, the RP machine constructs the part layer by layer until a solid replica of the CAD model is generated. Material selection is also method specific. The advantages of this process is clear: Some other applications of these technologies include development of models and tooling. Additionally, in the medical field, the convergence of medical imaging, CAD, and RP has made it possible to quickly develop medical models. It is a rotary combustion engine generating rotary motion through the combustion of the fuel, unlike the piston which convert reciprocating motion. These devices directly generate the rotary motion avoiding sine wave crank shaft conversion. This paper reveals a high efficiency, low emissions combustion process called Photo Detonation which is superior to thermal ignition process like Spark Ignition, Compression Ignition ,Homogeneous Charge Compression Ignition. Page 1 of 3.

Chapter 3 : Paper Presentation topics for Mechanical Engineering? | Yahoo Answers

As a mechanical engineering student, you may have to give paper presentation during the course. Here is a list of suggestions for Paper Presentation on Mechanical Engineering.

Chapter 4 : Upcoming Paper Presentation Competitions, Events Contests in

This is a comprehensive list of presentation topics for Mechanical Engineering students and professionals. These presentation topics can be used for Paper presentations, Seminars, workshops and for group discussions.

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I'm a mechanical engineering student & i want to do a paper presentation with some innovative ideas.. Please suggest me some topics.

Chapter 6 : Mechanical Engineering Seminar Topics pdf, ppt, doc, Full Reports, abstract

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Chapter 7 : Paper Presentation For Mechanical Engineering | Projects

Paper Presentation Topics For Mechanical Engineering Mechanical engineering is the study of designing and development of machines from bicycles to toasters to supersonic jets.

Chapter 8 : Mechanical Engineering Seminar Topics with Report | Abstract | PPT

Many times, while selecting topics for paper presentation, many questions come to mind, particularly in the minds of engineering students about the selection of topics to be presented as papers.

Chapter 9 : What exactly needs to be done in a paper presentation? | CrazyEngineers

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