

CHAPTER TEST THERMAL ENERGY

ANSWER 16

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What is thermal energy answers? Thermal energy is the flow of heat. The energy contained within a system that is responsible for its temperature is known as thermal energy.

How do you solve for thermal energy? How is a change in thermal energy calculated? Change in thermal energy is calculated with the following formula: Change in thermal energy = mass x specific heat capacity x change in temperature. The change in temperature is calculated by subtracting the initial temperature from the final temperature.

What is thermal energy the _____ of the particles in a system? Thermal energy is the sum of the kinetic and potential energy of all the particles in an object.

What quantity represents specific heat? The symbol for specific heat is c_p , with the p subscript referring to the fact that specific heats are measured at constant pressure. The units for specific heat can either be joules per gram per degree (J/g°C) or calories per gram per degree (cal/g°C).

What are 5 examples of thermal energy? Examples of thermal energy include heaters that make a room warmer, the sun drying wet clothes on a clothesline, ironing a shirt, baking a cake, and warming water to make tea. Any object or substance that is warm is emitting thermal energy.

Which is the thermal energy? Thermal energy (also called heat energy) is produced when a rise in temperature causes atoms and molecules to move faster and collide with each other. The energy that comes from the temperature of the

heated substance is called thermal energy.

How do you solve thermal? The most commonly used equation for calculating thermal energy is $Q = mc\Delta T$, where Q is the amount of heat transferred, m is the mass of the object, c is the specific heat capacity, and ΔT is the change in temperature.

What is thermal formula? Formula of Thermal Energy The thermal energy formula is given by. $Q = m c \Delta T$.

What is thermal energy and its formula? We can calculate this thermal energy using the formula, $Q = m.c.\Delta T$, Where m is the mass of the substance, c is the specific heat capacity, and ΔT is the temperature difference.

Why can't we get to absolute zero? The laws of thermodynamics indicate that absolute zero cannot be reached using only thermodynamic means, because the temperature of the substance being cooled approaches the temperature of the cooling agent asymptotically.

What energy is due to motion? The energy of motion is called Kinetic Energy.

What kind of energy are moving electrons? Electrical Energy: Energy created through the movement of electrons among the atoms of matter. Although electricity is seldom used directly, it is one of the most useful and versatile forms of energy.

Which factor helps heat transfer? Experiments show that the heat transferred to or from a substance depends on three factors—the change in the substance's temperature, the mass of the substance, and certain physical properties related to the phase of the substance.

What does the linear thermal expansion of a solid depend on? Linear expansion of a solid because of heat depends upon nature of material and the temperature difference. In scientific terms, heat is an internal energy that flows from a system of relatively high temperature to one at a relatively low temperature.

What is an example of a disorder in the universe? Answer and Explanation: Disorder in the universe is constantly increasing due to entropy; this is the second law of thermodynamics. For example, heat in water does not move from cold to hot

on its own; it moves spontaneously in the other direction, hot to cold, as its energy disperses.

Which type of energy is sound? Sound is a form of mechanical energy. Sound is produced when a force causes an object or substance to vibrate and the energy is transferred through the substance or medium in the form of a wave. Sound energy is usually measured by pressure and intensity, in units called pascals and decibels.

What type of energy is caused by the vibration of particles in matter? These tiny particles are always in motion – either bumping into each other or vibrating back and forth. It is the motion of particles that creates a form of energy called heat (or thermal) energy that is present in all matter.

How is heat transferred by convection? Convection occurs when heat is carried away from your body via moving air. If the surrounding air is cooler than your skin, the air will absorb your heat and rise. As the warmed air rises around you, cooler air moves in to take its place and absorb more of your warmth. The faster this air moves, the cooler you feel.

Can heat be created or destroyed? The First Law of Thermodynamics states that heat energy is conserved. This means it cannot be created nor destroyed. There has always been the same amount of energy in the universe. It may change from one form to another, from light to heat or from electricity to radio waves, for example.

How fast does radiant energy travel? Radiant energy does not require a medium to travel through; it can travel through a vacuum. The photons through which the radiant energy is transmitted are constantly in motion and travel in straight lines at a constant speed: 300,000 kilometers per second, known as "the speed of light".

What is the difference between conduction and convection heat transfer? In conduction, heat transfer occurs between objects by direct contact. In convection, the heat transfer takes within the fluid. In radiation, heat transfer occurs through electromagnetic waves without involving particles.

What is thermal energy grade 7? Heat is the transfer of thermal energy between substances. Thermal energy is the kinetic energy of moving particles of matter, measured by their temperature. Thermal energy always moves from matter with

greater thermal energy to matter with less thermal energy, so it moves from warmer to cooler substances.

What is thermal energy in a simple way? Thermal energy refers to energy within a system that's created by the random motion of molecules and atoms. As motion increases, more energy is produced. This energy is transferred in the form of heat. The flow of thermal energy from one system to another is the basis for a branch of physics known as thermodynamics.

What is thermal energy 8th grade science? Thermal energy has to do with the internal energy of a system from its temperature. When a substance is heated, its temperature rises because its molecules move faster and gain thermal energy through heat transfer.

What is thermal energy in one word? Answer and Explanation: Another name for thermal energy is internal energy or heat energy. Thermal energy relates directly to the kinetic energy of the molecules of a substance. Internal energy can be transferred between two substances and is referred to as heat transfer.

Can you put a motor in Lego Technic? Specifications. Breathe life into LEGO® Technic™ creations with the LEGO Powered Up Technic Large Motor (88013). Whether it's powering a steering mechanism or system of gears, this motor gets the job done.

Did Lego stop making motors?

Is Lego getting rid of Technic?

How do you get a Lego motor to work?

Are there any illegal LEGO building techniques? The LEGO Group has internal design rules for connecting LEGO® pieces together for stability and to avoid unnecessary stress. These are sometimes call 'illegal' building techniques. You're able to design using 'illegal' techniques in BrickLink Studio if the 'Snap' setting is turned off.

Which LEGO motor is the strongest? BuWizz Motor brings real RC car experience to LEGO® Technic™ fans. The most powerful motor in brick world. Compatible with

LEGO® Power Functions. but still backwards compatible.

Why did LEGO almost fail? The Danish toymaker experienced a rough year in 2005 when it nearly went bankrupt after losing sight of what mattered most in the business - customer satisfaction. LEGO's road to recovery began with the introduction of the Net Promoter System.

What is Lego Mindstorms being replaced with?

Why is LEGO retired? The most common reason for sets to retire is LEGO wanting to make room for new sets and/or themes. By retiring older sets, LEGO can introduce fresh designs and concepts to keep the brand exciting and relevant.

What replaced LEGO Technic? In 2018, Lego announced a new system for motorizing sets, to replace the Power Functions system. Early in release several names were used including Control+ and Power Functions v2; by 2020 the line was unified under the Lego Theme `Powered Up`.

Why are technic legos so expensive? LEGO Technic is generally expensive due to quality, research and development, licensing, collectability, and brand recognition. However, many LEGO Technic sets are well sought after in the secondary market, meaning your purchase could quickly turn into a profitable investment.

Why is LEGO declining? Operating profit was down in 2023 to 17.1 billion DKK, attributed by the LEGO Group to investment and foreign currency fluctuations. New factories are under construction around the world and the company has significantly increased its digital workforce.

What is a LEGO motor called? Power Functions M-Motor Powerful action for your LEGO Power Functions! Add an extra M-Motor to your LEGO creations! This medium power motor will give movement to your models, whether it's spinning a wheel or turning a system of gears.

Why does my LEGO motor not work? No movement or not moving as expected Make sure the plugs are firmly connected to the right ports and that the motors can spin freely without anything getting in the way. You may also want to check your building instructions to make sure you've built everything in the right way.

Do LEGO motors use batteries? Specifications. Give even more power and movement to your LEGO® creations with an extra battery box to supply power to your LEGO Power Functions motors! Each battery box can power 2 XL-Motors or 4 M-Motors at the same time. Requires 6 AA (1,5V) batteries, not included.

What is the LEGO 5 2 rule? Also known as the 5:2 rule. The width of two studs is the same as the height of five plates stacked on top of each other, leaving the studs visible, as shown below. LEGO's second golden ratio is 6:5. Six studs wide is the same as the height of five stacked bricks, with the stud visible, as shown below.

Is putting studs in technic holes illegal? Illegal SNOT: Stud In Technic Hole This illegal technique of putting studs in Technic holes has a lot of history and might take some time to unpack. The stud in Technic hole is a technique frequently used by many LEGO builders. It is perfect for SNOT applications.

Why are LEGO bricks no longer covered by patents? For instance, in 2010, the European Court of Justice ruled that LEGO bricks were ineligible for trademark protection in and of themselves, upholding a decision by the Grand Board of Appeal that the Lego brick's features performed a utilitarian function and were not adopted for the purpose of identification.

What is the rarest type of LEGO?

What is the hardest LEGO build to build?

What is the difference between LEGO NXT motor and EV3 motor? The NXT motor has rounded corners and an orange wheel. The EV3 motor has a more futuristic look with sharp corner a bright red wheel. The two motors are roughly the same size, giving the illusion that these motors are interchangeable.

Is LEGO losing popularity? The LEGO Group delivered topline growth and outpaced the market in 2023. Revenue was DKK 65.9 billion up 2 percent despite declining toymarket. Consumer sales* grew 4 percent. Outperformed the toy market and significantly grew market share globally.

Why are some LEGO builds illegal? A LEGO technique is classed as 'illegal' if it puts stress on the elements used; these are avoided by LEGO designers as over

time, they would cause the pieces to break or deform.

Why is LEGO so ridiculously expensive? Manufacturing process and R&D LEGO's engineering standards are very high. The material used is an ultra-strong and durable thermoplastic, and the colors do not fade over time (theoretically). The company uses a package of software to maintain the sizes of the bricks within a tolerance of 0.0005 inches.

What does NXT stand for in LEGO? The next technology - now. LEGO MINDSTORMS Education features an advanced 32-bit computer- controlled NXT brick, Interactive Servo Motors, Sound, Ultrasonic and other sensors, Bluetooth communication and multiple downloading capabilities.

What coding language does LEGO use?

Why are Mindstorms so expensive? That's a big development cost, because LEGO has a lot of proprietary components. The EV3 comes with quite a few electronic components— the programmable brick, 2 large motors, 1 smaller motor, infrared sensor, color sensor, touch sensor, remote control, 7 wires, and a USB cable. That adds a lot to the cost.

Do Lego Technic cars have engines? With steering, an opening hood, and a V8 engine with moving pistons, the LEGO® Technic NASCAR® Next Gen Chevrolet Camaro ZL1 is sure to impress even the most discerning NASCAR® fans.

How to make a Lego Technic car faster?

Can Lego Technic cars drive? MULTI-FUNCTION CONTROL Drive forward, reverse, steer, accelerate, brake and tackle obstacles. Enjoy constant model feedback, such as power usage and driving distance.

How fast can a Lego Technic car go?

Is Lego Technic harder than LEGO? The technic legos are great. They are harder to put together, but they also stay together much better than a regular lego. My son has one of the larger planes that has stayed together (through being played with) for over a year. Highly recommend these for the more advanced lego builders.

What is so special about Lego Technic? The Lego Technic system expands on the normal Lego bricks with a whole range of new bricks that offer new functions and building styles. The most significant change from normal Lego is that single-stud wide bricks ('beams') have circular holes through their vertical face.

Is LEGO Bugatti Chiron discontinued? This product has been discontinued.

Can you motorize Lego Technic? We've used the Power Functions platform in the past to motorize some of our LEGO® Technic or LEGO Creator Expert sets.

How long does it take to build the Lego Technic Bugatti? Building the LEGO Bugatti The set comes with 13 bags and the build time for each bag is an average of 45 minutes meaning that you may well spend the whole day building the entire LEGO car or two days with enough coffee and TV breaks.

What is the next Lego Technic big car? The LEGO Technic McLaren P1™ set will be available at www.LEGO.com/McLaren and LEGO Stores from 1st August 2024 priced at €449.99 / £389.99/ \$449.99. When purchasing the set between 1st – 7th August 2024, LEGO Insiders will receive the LEGO Technic McLaren P1™ Logo as a gift with purchase.

Does the Lego Technic Bugatti drive?

Does the Lego Technic Ferrari have a gearbox? The Lego Ferrari includes a working 8-speed sequential gearbox and a V12 engine with moving pistons, but that's not all.

How do you use a Lego Technic motor? The more you turn the dial in one direction, the faster the motor will spin. To make it spin slower, turn the dial in the opposite direction. Each tick of the dial will change the speed slightly, until it's at full speed in either direction.

What is the fastest Lego Technic set? The rumoured LEGO Technic 42176 Porsche GT4 e-Performance is now believed to be the fastest remote-controlled set as more details surface.

What is the fastest Lego model? This exclusive set is built to impress the people at Spano GTA and break a world record for fastest 1:8 model built from LEGO®. 10 x BuWizz motors powered by 5 x BuWizz 3.0 Pro bricks, enables you to drive this model with speed over 30 km/h. That is several times faster than any other LEGO® model in his size.

How long does it take to build the Lego Technic Ferrari Daytona? The Technic Ferrari Daytona SP3 is 3,778 pieces and will take a good long time to build, roughly 12 hours in total.

What is the summary of just and unjust wars? In conclusion, Just and Unjust Wars provides a comprehensive exploration of the moral dimensions of warfare. Walzer's work offers a nuanced understanding of the complexities involved in determining the justice of a war and the moral responsibilities of those involved in its conduct and aftermath.

What is just war summary? The just war theory postulates the belief that war, while it is terrible but less so with the right conduct, is not always the worst option. Important responsibilities, undesirable outcomes, or preventable atrocities may justify war. Saint Augustine was the first clear advocate of just-war theory.

What are the three parts of just war? Today, just war theory is divided into three categories, each with its own set of ethical principles. The categories are jus ad bellum, jus in bello, and jus post bellum.

What are the 5 rules for a just war? The principles of the justice of war are commonly held to be: having just cause, being a last resort, being declared by a proper authority, possessing right intention, having a reasonable chance of success, and the end being proportional to the means used.

What makes a war unjust? In traditional just war theory, there are various grounds on which war may be unjust: it may lack a just cause, or it may be unnecessary, disproportionate, unauthorised or wrongly intended.

What is the argument for just war? The just war theory is a largely Christian philosophy that attempts to reconcile three things: taking human life is seriously wrong, states have a duty to defend their citizens, and defend justice, protecting

innocent human life and defending important moral values sometimes requires willingness to use force and ...

What are the 3 wars? The Revolutionary War, War of 1812, and Civil War are each important enough to study in isolation from each other, but there is also value in looking at the broad trends across all three.

Is war justifiable essay? One argument is that a war can be justified when it's necessary for a country to protect itself from foreseeable danger. One of the most common types of threats is invasion which involves an opposing country entering another territory and attempting to take control and occupy another country.

Was WWII a just war? As a result of German ruthlessness, allied forces had enough, hence deciding to oppose axial forces through military action. Therefore, World War II qualifies as a just war because allied forces tried other means of conflict prevention before resorting to war.

What is the unjust war theory? In traditional just war theory, there are various grounds on which war may be unjust: it may lack a just cause, or it may be unnecessary, disproportionate, unauthorised or wrongly intended. There is, however, considerable dispute about whether a war must be properly authorised and rightly intended to be just.

What is the conclusion of the just war theory? Given just cause and right intention, the just war theory asserts that there must be a reasonable probability of success. The principle of reasonable success is consequentialist in that the costs and benefits of a campaign must be calculated.

What is the just war theory from Cicero's point of view? "No war can be undertaken by a just and wise state, unless for faith or self-defense," Cicero wrote. If not for self-defense, war should come only in response to an earlier wrong, such as an attack on allies or ambassadors, a breach of treaties, or support for an enemy.

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willingness to use force and ...

What was the stupidest war in history? History is littered with some truly dumb wars. The Pastry War saw a French pastry chef demand reparations when his shop was looted just outside of Mexico City in 1832. The Opium Wars in the 1840's began when China was trying to stop the British from trafficking opium in their country.

What are the 5 rules for a just war? Jus ad bellum (moral justifications for going to war) requires that the cause for war is just; the right authority makes the decision; the decision is made with the right intention of bringing about peace; the war is a last resort; the overall evil of the war does not outweigh the good.

What does jus in bello mean? The rules of jus in bello (or justice in war) serve as guidelines for fighting well once war has begun. Some maintain that morality does not exist in warfare, and therefore object to just war theory.

What is the just war theory quizlet? Just War. The idea that a war can be justifiable if it follows certain criteria. A war which might be regarded as justifiable both in terms of going to war and the way it is fought. Jus Ad Bellum. The right reasons for which a war can be started.

Was WWII a just war? As a result of German ruthlessness, allied forces had enough, hence deciding to oppose axial forces through military action. Therefore, World War II qualifies as a just war because allied forces tried other means of conflict prevention before resorting to war.

What are the three principles of jus in Bello? At issue are the core principles of necessity, humanity, and proportionality, as well as more specific prohibitions against particular tactics and methods of warfare, including perfidy and causing unnecessary suffering.

Which is true of just war theory? Which is true of just war theory? It holds that, for a war or military intervention to be justified, certain conditions for going to war must be met and the conduct in the war must follow certain principles and moral guidelines.

What is Cicero's theory? Cicero held that the laws of nature were more important than the laws of men and governments. He believed that any leader who defied

natural law was, by definition, a tyrant. In Cicero's own words, 'natural law is right reason, consonant with nature, common to every man, constant, eternal.

What is war according to Cicero? Cicero defines war broadly as “a contention by force”; Hugo Grotius adds that “war is the state of contending parties, considered as such”; Thomas Hobbes notes that war is also an attitude: “By war is meant a state of affairs, which may exist even while its operations are not continued;” Denis Diderot comments that war ...

What is the lesson of just war theory? Just War Theory provides a framework for states in conflict. It explains that every effort to prevent wars must be made while acknowledging that there are circumstances where violence is permissible because it is a lesser evil than alternatives.

What is a criticism of the just war theory? Some find the very idea of just war theory laughable. Of those, some deny that morality applies at all once the guns strike up; for others, morality always applies, everywhere, and it could never license the exceptional horrors of war. The first group are sometimes called realists. The second group are pacifists.

What is just cause in just war theory? What is a 'just cause'? A war is only just if it is fought for a reason that is justified, and that carries sufficient moral weight. The country that wishes to use military force must demonstrate that there is a just cause to do so. The main just cause is to put right a wrong.

What is the oldest engineering drawing? Drafting and design have a long history starting, as far as we can see, around 2,000 B.C. The first evidence of drafting came from this period in the form of a drawn aerial view of a castle in Babylon.

What is engineering drawing 1? An engineering drawing is a type of technical drawing that is used to convey information about an object. A common use is to specify the geometry necessary for the construction of a component and is called a detail drawing. Usually, a number of drawings are necessary to completely specify even a simple component.

What do the 3 blocks on an engineering drawing signify? Blocks of Information. The information included in these blocks is crucial to the assembly. They are

frequently seen at the drawing's bottom right-hand corner. These blocks define what the drawing is for, who it is for, the component number and description, and material and finish information.

How many types of drawing are there in engineering drawing? Engineering drawings are typically of two kinds: part drawing and assembly drawing. The part drawing shows the dimensions of individual parts (a bracket, an extrusion, a tube, a bent aluminum sheet, etc.), while the assembly drawing shows how these are to be attached in relation to each other.

What is the hardest technical drawing? Descriptive Geometry is notorious for being the hardest of all technical drawing types. However, you can understand it and master it with enough practice.

What did engineers use before CAD? Before the advent of AutoCAD and other drafting software, the engineering drawings were made on the sheet of papers using drawing boards.

Is engineering drawing hard? Engineering drawing may be about technical drawings but it is one of the toughest subjects, ask any engineering student and you will know.

Who is the father of engineering drawing? Gaspard Monge created a large-scale plan of a town using his own methods of observation and instruments that he designed. As a result, authorities commissioned Gaspard as a drafter and pupil in the practical school of the military institution.

Who invented engineering drawing? The technical Engineering Drawing have existed since the ancient times. The strong traces of engineering drawings are also found in the literature of Leonardo da Vinci. Gaspard Monge is frequently considered the "father of descriptive geometry".

What is the M symbol in engineering drawing? "M" stands for "maximum material condition." This symbol indicates the application of maximum material condition.

What is a F in engineering drawing? AF. across flats. Commonly used when measuring the flat surfaces of a hex drive, such as a hex nut.

What letters are not used in drafting? 35 standards for tracking changes with engineering drawings. Also stated in these standards, all letters in the alphabet can be used for revisions, except I, O, Q, S, X, and Z, as these can be mistaken for numbers. The letters are to be used in an uppercase format.

How to study engineering drawing easily?

What is the triangle symbol in engineering drawing? The surface roughness on a drawing is represented by inverted triangles. The basic symbol consists of two legs of unequal length inclined at approximately 60° to the line representing the considered surface. The symbol must be represented by a thin line. The value of roughness is added to the symbols.

What are engineering drawings called? Engineering drawings are also called technical drawings, prints, blueprints or schematics. Engineers used to make these drawings by hand, but now they make drawings on CAD software.

What is the hardest pencil used in engineering drawing? 9H is the hardest, and 7B is the softest. Engineering drawings can be constructed with two or three hardness grades (4H, F and B). Pencils and pencil leads are available in a variety of hardness levels. A hard pencil is used to lay out light lines that are not intended to be seen by the reader.

Is technical drawing obsolete? Technical drawings are the backbone of the engineering industry, even if they aren't used as the main source of drafting and designing anymore. With CAD software, some might consider technical drawings outdated and useless. That's not the case, however. These drawings are still very important.

What is the easiest drawing ever?

Who is the father of technical drawing? Gaspard Monge, Comte de Péluse was a French mathematician, commonly presented as the inventor of descriptive geometry, technical drawing, and the father of differential geometry.

What did CAD replace? Used by engineers, architects, and construction managers, CAD has replaced manual drafting in many places. It helps users create designs

both 2D and 3D designs to better visualize construction. CAD enables the development, modification, and optimization of the design process.

What CAD software do most engineers use? AutoCAD. AutoCAD, which was made by Autodesk, has a long history as one of the first CAD platforms. It is widely used in many fields, especially architecture, engineering, and construction, because it is flexible, can do both 2D and 3D modelling, and has a huge selection of industry-specific tools.

Can I be an engineer if I'm bad at drawing? You'll have no need to be an artist and make realistic looking pencil sketches. To make engineering drawings you'll use CAD, like AutoCAD or other 2D and 3D software. It's useful to be able to make quick hand sketches to communicate ideas, but they don't have to be artistic.

What are the cons of engineering drawings? Disadvantages of engineering drawings include: Complexity: Engineering drawings can be very complex, with a lot of information packed into a small space. This can make them difficult to read and interpret. Cost: Producing accurate engineering drawings can be time-consuming and expensive, especially for complex designs.

How can I be perfect in engineering drawing?

Do engineers own their drawings? First, as we noted in Case 67-3 that as a general rule, in the absence of a contractual provision to the contrary, the drawings, plans, and specifications prepared by an engineer for a client are the property of the client.

Who is the godfather of engineer? In India, September 15 is observed as National Engineer's Day. This day commemorates the birth of the first engineer Sir Mokshagundam Visvesvaraya, also known as the Father of Engineering. The general celebration offers recognition to all the civil engineers for their contributions to the nation's development.

Why do engineers make sketches? Engineering drawings are used to communicate design concepts and design intent using a standardized pictorial language comprised of lines, shapes, and symbols. They are sophisticated technical drawings that provide details on the geometry, dimensions, materials, and tolerances

of an object.

What is the most oldest engineering? Civil engineering is the oldest form of engineering and one of the earliest professions. It came into being due to one of the basic human needs i.e. the need for shelter. The earliest forms of shelter were caves and trees but as man progressed, he built shelters of clay, stone and wood to suit his needs.

What is the oldest construction drawing? Architects drew up highly precise plans of vast stone-walled hunting traps 9000 years ago, representing the oldest known architectural plans to scale in human history.

What is the oldest form of drawing? The earliest human drawing, dating back to the Stone Age, has been found in a cave in South Africa. It is a cross-hatched pattern and was drawn with a red ochre crayon. A team of scientists from Norway, South Africa, Switzerland and France found that the pattern had been intentionally drawn onto silcrete stone.

What is the oldest engineering category? 1. Civil Engineering. Often thought to be the oldest engineering discipline, civil engineering focuses on constructing, designing, and maintaining physical structures used by the public, such as dams, bridges, tunnels, roads, airports, subway systems, and water supply systems.

What is the hardest engineering? The top 5 most difficult engineering courses in the world are nuclear engineering, chemical engineering, aerospace engineering, biomedical engineering and civil engineering.

Which engineering is the richest?

Who is the greatest engineer of all time? Nikola Tesla— The inventor, creator, electrical engineer and mechanical engineer was an inventor way beyond his times with his futuristic innovations. The engineer invented the induction motor, fluorescent lighting and Tesla coil, all important inventions still in use today.

What is the oldest city in the world? Jerico, West Bank - 11000 years old Situated in the Palestinian territories, this place stands as a formidable candidate for the world's oldest continuously inhabited settlement, tracing its origins back to approximately 9,000 BC, as per Ancient History Encyclopedia.

What is the oldest place on Earth? Dating to around 3.6 billion years ago, the Pilbara region of Western Australia is home to the fossilised evidence of the Earth's oldest lifeforms.

What is the oldest wooden structure still standing? As discussed above, ??? (Horyuji) was built in 607 AD and is world's oldest surviving wooden structure. It was constructed using ? (hinoki, Japanese cypress) that were roughly 2,000 years old. As the temple is 1,300 years old, it's also been 1,300 years since the timber was cut down, but it still stands firm.

Why did humans live in caves? Starting about 170,000 years ago, some Homo sapiens lived in some cave systems in what is now South Africa, such as Pinnacle Point and Diepkloof Rock Shelter. The stable temperatures of caves provided a cool habitat in summers and a warm, dry shelter in the winter.

What is the oldest depiction of a human being? The six-centimeter-tall Venus of Hohle Fels is among the sculptures uncovered. The mammoth ivory figurine is the oldest known depiction of a human being.

What is the oldest drawing of a woman? Most date to the Gravettian period of the Homo sapiens occupation of Europe, between 26,000 and 21,000 years ago, but the oldest, found in Germany, may be more than 35,000 years old. This photograph shows the famous Venus of Willendorf from Austria, which was carved in stone about 30,000 years ago.

What is the toughest branch of engineering in the world? Electrical engineering, chemical engineering, biomedical engineering, aerospace engineering, and computer engineering are considered the toughest branch in engineering.

What engineer makes the most money?

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