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Is bioprocess engineering a good career? Professionals in this industry often work in industrial and commercial settings to support the innovation of new technologies that benefit society. If you're interested in the sciences or technology, bioprocess engineering provides many career opportunities.

Who is the father of all engineers? 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.

What are the 3 key steps in bioprocess? 3 BIOPROCESSING – CURRENT STATUS AND DEVELOPMENT. A bioprocess usually consists of feedstock pretreatment, fermentation or biocatalysis, and downstream processing or separation for product recovery and purification (Figure 2).

What do bioprocessing engineers do? A Bioprocess Engineer is a professional who designs, develops, and optimizes biological systems and processes for the production of products such as food, fuel, pharmaceuticals, and chemicals. They work with microorganisms, enzymes, and other biological materials to create sustainable and efficient processes.

What are the examples of bioprocessing engineering? For example, today's municipal wastewater-treatment plants use bioprocess-engineering principles to dispose of sewage and to provide clean and safe drinking water. Composting is a practice known to many, including weekend gardeners, and is a use of microorganisms to degrade gardening and other wastes.

Where can a bioprocess engineer work? As a bioprocess engineer, you might work for a pharmaceutical company, a developer of alternative fuels, or a food manufacturer, and your responsibilities vary depending on the industry.

What is the difference between bioprocess engineering and biomedical engineering? With bioengineering, you can obtain a great grasp of engineering theory and experience in various biological sciences. Biomedical engineers can, in turn, use their medical training to create practical solutions to issues affecting life sciences and human health.

How is bioprocess technology useful to us? Bioprocessing or biotechnology is used in the production of pharmaceuticals, foods, flavours, fuels, and chemicals with the aid of a biocatalyst such as an enzyme, microorganisms, plant cell, or animal cell

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in a bioreactor.

What is the salary of bioprocess engineering in USA?

What is bioprocess engineering also known as? Biochemical engineering, also known as bioprocess engineering, is a field of study with roots stemming from chemical engineering and biological engineering.

What are the challenges of bioprocess engineering? The major challenges associated with bioprocess applications include unexpected technological manufacturing difficulties, restricted marketing experience, and inadequate preclinical safety/risk management.

Do bioengineers make a lot of money? Biomedical engineers earn an average yearly salary of \$100,630. Wages typically start from \$62,160 and go up to \$155,480.

How much does a bioprocess engineering Phd make? \$141K. How accurate is a total pay range of \$113K-\$178K/yr?

What skills do you need for bioprocess engineering? Bioprocess engineers need a variety of hard skills to excel in their roles. Proficiency in GMP and process flow is crucial, as well as experience with CIP and SIP. Scale-up and pilot plant operations are also vital skills. Data analysis and biochemical engineering knowledge are valuable assets.

What is the hardest engineering course? Biomedical Engineering Biomedical Engineering is often regarded as the hardest engineering majors due to its broad, interdisciplinary nature, combining diverse fields and extensive memorization of biological concepts.

Which is the toughest branch in engineering? Aerospace engineering is the toughest branch in engineering in world that deals with the designing, developing, testing, and operating of spacecraft, and related systems. It is a vast field with two major disciplines that is, aeronautical and astronautical engineering.

Who is the greatest engineer of all time?

Who is the father of process engineering? The September issue of the AIChE Journal chronicles the research of Professor Roger W.H. Sargent, recognized as the father of Process Systems Engineering.

Who is the father of biological engineering? Herman P. Schwan [1915–2005] was a distinguished scientist and engineer, and a founding father of the field of biomedical engineering.

Who started bio engineering? Bioengineering has historical roots that extend back to the 17th century. Robert Hooke, Leonhard Euler, Thomas Young, Jean Poiseuille, Hermann von Helmholtz, and Horace Lamb are among some of the better-known contributors to the development of engineering as an applied science.

Who is called the father of genetic engineering? In 1972, Paul Berg started genetic engineering. With the aid of the lambda phage, he was able to insert the SV-40 virus gene into the bacterium. Berg is also called the “Father of Genetic Engineering”.

Can guitars be repaired? Don't worry – typically, common instrument issues can be quickly and easily repaired by yourself. Besides general hardware, neck, or body damage to the instrument, defects or malfunctions in the internal electronics of an electric guitar are quite common, and problems can occur on the way to the amplifier.

How do you repair a nick on a guitar? A small nick can be filled with super glue, then sanded very lightly with a super fine grit sandpaper.

How to repair a wooden guitar? A simple fix for cracks and cosmetic defects in the body or neck is to fill in the cracks with wood filler. This inexpensive material will work for small cracks that are not too deep. Cover it in and over with wood filler. Let it dry.

How to service an electric guitar?

What do you call a person who repairs guitars? A luthier (/ˈluːtiər/ LOO-tee-ər; US also /ˈluːθiər/ LOO-thee-ər) is a craftsperson who builds or repairs string instruments.

Do guitars have a lifespan? In conclusion, the lifespan of a guitar depends on various factors, including the quality of materials, frequency of use, and maintenance. Acoustic guitars generally have longer lifespans, while electric guitars may require more maintenance over time.

Can you fix a dead fret on a guitar?

How do I start a guitar repair?

Can you fix chips on a guitar?

Can a guitar become Untunable? It's more commonly a problem on bass guitars or other instruments with heavy strings, but it can be an issue on guitars as well, especially if the nut slots aren't well formed or the break angle over the nut or bridge are really shallow.

Can a bent guitar be repaired? Fixing a Back Bowed Guitar Neck One simply needs to heat the fingerboard surface for about 20 minutes with the strings tuned to pitch. The heat will soften the glue between the fingerboard and the neck and at the same time allow the neck to bend forward. Care must be taken to not overheat the neck.

Can you fix a broken guitar body? How can you fix a cracked acoustic guitar body? A repair person typically uses cleats - small wood patches that are glued to the inside of the guitar body, along the crack, to hold the seam together. Then the cleats are added to the inside of the guitar and held in place by clamps inside and outside.

Can you make a living repairing guitars? If you can properly re-glue loose bridges, fix top cracks, and detail frets, there is paid work available almost anywhere you go. Mending broken headstocks alone can be a fairly decent income stream! Fixing and reselling these guitars is also a good way to finance tools and equipment.

What is the conclusion of the Colpitts oscillator experiment? 4 Conclusions The Colpitts oscillator does not appear to be an inherently better topology than the differential pair oscillator. For example, some of the current supplied by the transistor

to overcome the loss in the resonator flows through C2 making this topology less

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efficient than the differential LC oscillator.

What is Hartley and Colpitts oscillator with neat circuit diagram? The Hartley oscillator has a tap between two coils, while the Colpitts has a tap between two capacitors. You can change the frequency of the Colpitts either by varying the inductance of the coil or by varying the capacitance of the two capacitors in the tank circuit.

Which is the transistor used to operate the Colpitts oscillator? Just like the previous Hartley Oscillator, as well as using a bipolar junction transistor (BJT) as the oscillators active stage, we can also use an operational amplifier, (op-amp).

What is the circuit of Colpitts oscillator? The Colpitts circuit, like other LC oscillators, consists of a gain device (such as a bipolar junction transistor, field-effect transistor, operational amplifier, or vacuum tube) with its output connected to its input in a feedback loop containing a parallel LC circuit (tuned circuit), which functions as a bandpass ...

What is the feedback circuit in an oscillator can be accomplished by? In this circuit, the feedback network includes an inductor and a capacitor, and the feedback is accomplished by inductive coupling from one coil winding to another coil. Here the coils are inductively coupled through mutual inductance as the coils are wound to the same core.

What determines the frequency in the Colpitts oscillator? The output frequency of a Colpitts oscillator is proportional to the fixed inductance or the capacitance $f_o = 1/(C_f C_{SL}/(C_f + C_S))^{1/2}$. Fig. 6. Schematic of basic LC tank circuit.

How to make an oscillator using a transistor? The Transistor's Mechanism/Working Circuit of the Oscillator The tank circuit is inserted between the emitter and base connections. A capacitor and an inductor are linked in parallel in a tank circuit, which generates oscillations inside the circuit.

What is the use of Hartley oscillator using transistor?

Which configuration of transistor amplifier is used for a Colpitts oscillator? As with the Hartley oscillator, the Colpitts oscillator uses a single stage bipolar transistor amplifier as the gain element which produces a sinusoidal output.

Why we use transistor as an oscillator? A transistor oscillator is used to generate constant undamped oscillations for any desired frequency if oscillatory & feedback circuits are connected properly to it. Wien bridge oscillator is highly used in audio testing, power amplifiers distortion testing, and also used for the AC bridge excitation.

What is the active element in the Colpitts oscillator? Explanation: The active element used in Colpitts oscillator is transistor and it is used for amplification of weak oscillator signals. Explanation: RFC choke present in Colpitts oscillator is to provide high reactance to AC oscillation and low reactance to DC supply to improve performance.

What is the disadvantage of a Colpitts oscillator? Because of inductor L circuit becomes bulky and cost of circuit is more. Poor frequency stability. Difficult to adjust feedback as capacitor values has to be changed.

What is the difference between Hartley and Colpitts oscillator? Both the Hartley and Colpitts oscillators use an LC resonant “tank” circuit to determine their frequency of oscillation and provide the feedback path, but in the Colpitts the feedback is derived from a capacitive divider, while in the Hartley it's an inductive divider (a pair of inductors in series or a single tapped ...

What is the basic circuit of an oscillator? For oscillations to exist an oscillator circuit MUST contain a reactive (frequency-dependant) component either an “Inductor”, (L) or a “Capacitor”, (C) as well as a DC power source. In a simple inductor-capacitor, LC circuit, oscillations become damped over time due to component and circuit losses.

What is the difference between pierce and Colpitts oscillators? A Pierce oscillator design, as shown below, is optimized to use a series resonant crystal. A Colpitts oscillator design, as shown below, is optimized to use a parallel resonant crystal. Because the two crystals are identical when they come off the assembly line, the differences come from application and usage.

Why only positive feedback is used in oscillator? Positive feedback is utilized mainly because it performs Barkhausen's Criteria in order to make sustained

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oscillations. Positive feedback is favoured in oscillators as it provides positive gain to the system; the, i.e., system is likely to Saturation Value depending on the Source Voltage provided.

Why feedback circuit is needed in a transistor oscillator? Solution. If the portion of the output fed to the input is in phase with the input, then the magnitude of the input increases. It is necessary for sustained oscillations, so a feedback circuit is needed for a transistor oscillator.

What is the purpose of the feedback circuit? Feedback Circuits This kind of amplifier can improve control of the output. If the actual output is compared with the desired output, an error can be constructed and used to correct the output. Feedback is analogous to recursion in mathematics and to iterative loops that branch backward in software.

What is another name for Colpitts oscillator? Colpitts Oscillator Question 4 Detailed Solution Basically, the circuit has, an amplifier unit like a transistor or op-amp along with a feedback network comprising resistors and capacitors. Thus, is also known as RC phase shift oscillator.

What is the phase shift of Colpitts? In Colpitts and Hartley oscillators, the phase shift of 180° is obtained by using centre- tapped capacitor or centre-tapped inductor in the LC circuit. As they use L-C network, they are called as LC oscillators. However a phase shift of 180° can also be achieved by using a network of resistances and capacitance.

What is the resonant frequency of Colpitts? Resonant Frequency of a Colpitts Oscillator. where C is total capacitance of C1 and C2 in parallel. This result puts the oscillator in the middle of the UK FM Band (87.5 - 108 MHz).

What is the most simple oscillator circuit? The most simple oscillator you can make is one based upon a 'Schmitt trigger' (digital) port. There are several chips available that have this function like: HEF40106, or CD40106, 7413, 7414 and a lot more.

How does a Colpitts oscillator work? Colpitts Oscillator Working. Whenever power supply is switched on, the capacitors C1 and C2 shown in the above circuit

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start charging and after the capacitors get fully charged, the capacitors starts discharging through the inductor L1 in the circuit causing damped harmonic oscillations in the tank circuit.

How to make a circuit with transistor?

How do you use a transistor as an oscillator? The transistor is utilised as a common emitter circuit in oscillator circuit design, with the emitter connected to both the base and collector terminals. A tank circuit has been connected between the input terminals, i.e. between the emitter and the base.

What is a heartless oscillator? The Hartley oscillator is an electronic oscillator circuit in which the oscillation frequency is determined by a tuned circuit consisting of capacitors and inductors, that is, an LC oscillator.

What are the advantages and disadvantages of Colpitts oscillator? The Colpitts Oscillator can be used in high frequency to produce pure sinusoidal waveform because of low impedance paths of the capacitors at high frequencies. It has wide operation range from 1 to 60 MHz. Disadvantages: It is difficult to design.

What is the conclusion of the work energy theorem experiment? Conclusion. The work-energy theorem allows us to combine our understanding of work and kinetic energy. When work is done on an object, the force exerted on the object causes a displacement. Since kinetic energy is the energy of motion, the force is also changing the object's kinetic energy as it causes movement.

What was the conclusion of the Archimedes Principle experiment lab report? Expert-Verified Answer the upward buoyant force experienced by an immersed body is always equal to the weight of the water displaced by that immersed body. this helps in finding the volume of the an object. as , the volume of the object submerged = volume of the fluid displaced by that object.

What is the conclusion of simple pendulum experiment report? Conclusion. Only the length affects the period of a pendulum. Changing the weights and the distance pulled to swing does not affect the time taken to finish a swing from an initial to the final position. The period of the pendulum remains the same in both cases.

What is the conclusion of the lab report verification of Bernoulli's theorem?

CONCLUSION As Bernoulli state high velocity of fluid flow result in low pressure and based on continuity equation, the smaller the area, the higher the velocity. Thus, the result proved both equation could be used to determine the velocity of fluid flow in manometer.

What is the work-energy theorem summary? The work-energy theorem states that the total work done by all of the forces on the object is equal to the change in kinetic energy of the object.

What is the statement of work-energy theorem and prove it? Work energy theorem states that work done by the net force acting on a body is equal to the change produced in the kinetic energy. It can simply be written as $W = k_f - k_i$.

How do you use the work-energy theorem to solve problems?

What was the conclusion of the experiment? A conclusion is a statement based on experimental measurements and observations. It includes a summary of the results, whether or not the hypothesis was supported, the significance of the study, and future research.

Which is the best explanation of Archimedes Principle? Archimedes' principle states that a body immersed in a fluid is subjected to an upwards force equal to the weight of the displaced fluid. This is a first condition of equilibrium. We consider that the above force, called force of buoyancy, is located in the centre of the submerged hull that we call centre of buoyancy.

What is the purpose of Archimedes Principle experiment? Archimedes' principle is very useful for calculating the volume of an object that does not have a regular shape. The oddly shaped object can be submerged, and the volume of the fluid displaced is equal to the volume of the object. It can also be used in calculating the density or specific gravity of an object.

What is the conclusion of the simple harmonic oscillator? Simple harmonic motion evolves over time like a sine function with a frequency that depends only upon the stiffness of the restoring force and the mass of the mass in motion. A stiffer spring oscillates more frequently and a large mass oscillates less frequently.

What was the conclusion of the torsion pendulum experiment? We conclude that when a torsion pendulum is perturbed from its equilibrium state (i.e. $\theta = 0$) it executes torsional oscillations about this state at a fixed frequency ω , which depends only on the torque constant of the wire and the moment of inertia of the disk.

What was the conclusion of the ballistic pendulum experiment? Conclusion: In conclusion, the experiments successfully demonstrated the objective of the lab of measuring speeds of projectiles using a ballistic pendulum. It demonstrated how conservation of energy and momentum can be used to determine or calculate these speeds.

What was the conclusion of the Archimedes Principle lab? Conclusion: The conclusion for this lab is we did demonstrate Archimedes Principle in both magnitude and concept. We proved that the buoyant force is greater for the heavier objects. If the object is denser than the fluid we found out that the object would have a downward acceleration, therefore sinking.

What is the conclusion of Boyle law experiment? Conclusion: Robert Boyle, through experimentation, found the inverse relationship between gas pressure and gas volume for a given amount of gas at a constant temperature and atmospheric pressure. Looking at the raw data from Boyle's classical experiment, the data expresses the clear cut relationship.

What is the main purpose of Bernoulli's theorem experiment? The aim of this experiment is to verify Bernoulli Equation by using a venturi meter to observe fluid elevation through the tube with different flow rates and research the reasons of difference between theory and practice.

What is the Data Privacy and Protection Act USA? Contents. The American Data Privacy and Protection Act (ADPPA) aimed to regulate how organizations keep and use consumer data. The Act had several main principles: data minimization, individual ownership, and private right of action. The burden of evaluating each organization's programs would fall to the organization.

What is data protection and privacy compliance? Data privacy defines who has access to data, while data protection provides tools and policies to actually restrict

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access to the data. Compliance regulations help ensure that user's privacy requests are carried out by companies, and companies are responsible to take measures to protect private user data.

Who regulates KPMG in the UK? KPMG LLP is authorised and regulated by the Financial Conduct Authority of 25 The North Colonnade, Canary Wharf, London E14 5HS in respect of designated investment business. Details of its authorisation can be found on the FCA's Register of Authorised Firms under firm reference number 210513.

How many employees does KPMG Advisory have in the US? About us. KPMG is one of the world's leading professional services firms and the fastest growing Big Four accounting firm in the United States. With 75+ offices and more than 40,000 employees and partners throughout the US, we're leading the industry in new and exciting ways.

Who regulates data protection in the US? The HIPAA Privacy Rule, promulgated by the US Department of Health and Human Services, went into effect in 2003 and regulates the use and disclosure of protected health information ("PHI") in healthcare treatment, payment and operations by covered entities and business associates of covered entities.

What is the US equivalent of the GDPR? The CCPA (California Consumer Privacy Act) is the US equivalent of GDPR. This comprehensive data privacy act gives Californian residents greater transparency and control over how businesses collect and use their personal information. What are the main principles of GDPR? How is CCPA different from GDPR?

What are the 5 pillars of compliance to the data privacy Act? To ensure data privacy, there are 5 main pillars of data privacy which include: appointment of a data protection officer, conducting of privacy impact assessment (PIA), formulation of a privacy management program (PMP), execution of data privacy and protection measures, and preparation of data breach management ...

What is the difference between data privacy and data protection? Data privacy is about keeping your information from being sold or shared, while data protection focuses on keeping that information from hackers. It's important to explain this

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difference to people and have a policy as to what your company does for each type of data intrusion.

What is the data compliance rule? Data compliance refers to the practice of adhering to legal and regulatory requirements, industry standards, and internal policies related to the collection, storage, processing, and sharing of data. It involves implementing measures and following guidelines to ensure data is handled securely and responsibly.

Is KPMG UK or US? Headquartered in London, United Kingdom, KPMG is a network of firms in 145 countries with 273,424 employees.

What did KPMG used to be called? KPMG was formed in 1987 with the merger of Peat Marwick International (PMI) and Klynveld Main Goerdeler (KMG) and their individual member firms. Spanning three centuries, the organization's history can be traced through the names of its principal founding members whose initials form the name 'KPMG'.

What is the entity name of KPMG US? KPMG LLP (“KPMG”, “we” or “us”) is a Delaware limited liability partnership and a member firm of the KPMG global organization of independent member firms affiliated with KPMG International Limited (“KPMG International”), a private English company limited by guarantee.

How hard is it to get into KPMG Advisory? KPMG, it is believed, had 50,000 internship applications in the United States alone for 3,900 roles, which suggests that 8% of applicants received an offer. This might be related to the fact that KPMG has a smaller consulting arm (consulting being harder to get into than accounting) than the other Big Four.

Is KPMG us a good place to work? KPMG has an employee rating of 3.7 out of 5 stars, based on 48,847 company reviews on Glassdoor which indicates that most employees have a good working experience there.

Why is KPMG laying off employees? KPMG cut 2,700 US jobs in 2023 through a pair of workforce reductions, citing low attrition and strong “economic headwinds.” Big Four affiliates in the UK, Canada and Australia announced a series of layoffs in the second half of the year.

What personal information is protected by the Privacy Act USA? The Privacy Act of 1974, as amended to present, including Statutory Notes (5 U.S.C. 552a), Protects records about individuals retrieved by personal identifiers such as a name, social security number, or other identifying number or symbol.

What is the purpose of the data privacy Act? Fully titled, “An Act Protecting Individual Personal Information in Information and Communications Systems in the Government and the Private Sector, Creating for this Purpose a National Privacy Commission, and for Other Purposes” the DPA aims to protect the fundamental human right of privacy, of communication while ...

What personal data is covered by the data protection Act? For example, the telephone, credit card or personnel number of a person, account data, number plate, appearance, customer number or address are all personal data. Since the definition includes “any information,” one must assume that the term “personal data” should be as broadly interpreted as possible.

What is the difference between CCPA and American Data Privacy and Protection Act? In comparison, the CCPA only provided a private right of action in instances of a data breach. The ADPPA, on the other hand, permitted any person or class of persons to bring a civil action in Federal court for any violation of the ADPPA.

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