

Analog circuits objective question answers

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What are the objectives of analog circuits course? Course Objective: 1. The goal of this course is to introduce and verify basic principles, operation and applications of the various analog electronic circuits and devices like: BJT and MOSFET for various functions. 2. To make students understand and analyze the design and working of amplifiers and their configurations.

Why we Cannot use H parameter model in high frequency analysis? ? At low frequencies, we analyze transistor using h-parameter. But for high frequency analysis the h-parameter model is not suitable, because :- (1) The value of h-parameters are not constant at high frequencies. (2) At high frequency h-parameters become very complex in nature.

What happens to the high frequency response if the load resistance of a CE stage increases by a factor of 2? 3. If the load resistance of a C.E. stage increases by a factor of 2, what happens to the high frequency response? Explanation: If the load resistance increases by a factor of 2, the output pole decreases since it's inversely proportional to the load resistance.

What is the use of amplifier in a circuit is to dash for input signal? 1. The use of amplifier in a circuit is to _____ for input signal. Explanation: The only use of amplifier in a circuit is to provide strength to signal. This may refer to an increase in current, voltage or power of the output w.r.t the input being applied.

What is the learning objective of circuit? The student should be able to identify a circuit as being either parallel or series and mathematically analyze the circuit to determine the equivalent resistance, the total circuit current, the voltage drop across each resistor, and the current through each resistor (if given the battery voltage and

the resistance of ...

What is the purpose of the analog circuit? Amplification: Analog circuits are used to amplify signals in a wide range of applications, such as audio amplifiers, radio frequency amplifiers, and instrumentation amplifiers. Filtering: Analog circuits can be used to filter out unwanted frequencies in signals, such as in audio or radio frequency filters.

Why only H-parameters are used for transistor? H-parameters are one system for characterizing bipolar transistors. The h-parameters of a transistor will give you a good idea what it can do, how to use it effectively in a circuit, and whether it is appropriate for a particular circuit. In practice, only a few h-parameters are commonly used.

What are the disadvantages of H-parameters? The main limitation of h parameter is that it cannot depict the behaviour of the circuit at high frequency.

Why are H-parameters not used at high frequencies? While the h-parameter circuit assumes small signal conditions, it does not accurately represent the BJT's behavior at high frequencies. At high frequencies, the transistor's parasitic capacitances and other high-frequency effects become significant, which are not considered in the h-parameter model.

What is the difference between transmissibility and FRF? So while we generally say that both measure the output relative to the input, there is a big difference – the FRF is a complex function with both magnitude and phase whereas the Transmissibility (TR) is just the ratio of the magnitudes; this is very different because of the lack of phase.

Why does the gain of an amplifier drop in low and high frequency of an RC coupled amplifier? The capacitance C_{be} offers a low input impedance at higher frequency thus reduces the effective input signal and so the gain falls. C_{ce} provides a shunting effect at high frequencies in the output side and reduces the gain of the amplifier.

Why does the gain remain constant at MF? At Mid-frequencies (i.e. 50 Hz to 20 KHz) But this lower capacitance reactive increases the loading effect of the next

stage by which there is a reduction in gain. Due to these two factors, the gain is maintained constant.

Do amplifiers output AC or DC? All audio amps use DC. If you are feeding AC into an amp, there is circuitry in the amp to convert it to DC. The ability to take an AC cord is a convenience for the consumer - that AC is fed into some sort of rectifier which outputs DC for the amp.

What type of coupling is most useful for impedance matching? In audio systems, transformer coupling is also widely used. For example, when connecting the amplifier output to a speaker, a transformer can be used to solve the problem of impedance mismatch between the amplifier output and the speaker and ensure the quality of the audio signal.

What impedance relationship should there be between the two circuits for maximum power transfer between circuits? The theorem can be extended to alternating current circuits that include reactance, and states that maximum power transfer occurs when the load impedance is equal to the complex conjugate of the source impedance.

What is the main message of the circuit? The main idea of The Circuit is that migrant families come to America for better lives, but they end up working very difficult, labor-intensive jobs and may never get to live in proper homes. They have to move around a lot and struggle to learn English. It is a hard and lonely life for their children as well.

What is the main learning objective? A learning objective is a statement that tells your students what they will learn by the end of your lesson or course. It's like a promise you're making to your students about what they'll get. It includes an observable action and a subject.

What is the basic knowledge of circuits? A circuit is an unbroken loop of conductive material that allows charge carriers to flow through continuously without beginning or end. If a circuit is "broken," that means its conductive elements no longer form a complete path, and continuous charge flow cannot occur in it.

What are the basics of analog circuits? Analog circuits function by transmitting continuous voltage or current as a signaling method. Typically analog circuits are made of basic components like resistors, capacitors, diodes, inductors, transistors and operational amplifiers.

Which device amplifies the signal? An amplifier is an electronic device that increases the voltage, current, or power of a signal. Amplifiers are used in wireless communications and broadcasting, and in audio equipment of all kinds.

What are the benefits of analog circuits? Analog signals are much higher density, and can present more refined information. Analog signals use less bandwidth than digital signals. Analog signals provide a more accurate representation of changes in physical phenomena, such as sound, light, temperature, position, or pressure.

Why is it called H parameter? Hybrid Parameters Every linear circuit having input and output terminals can be analyzed by four parameters (one measured in ohm, one in mho and two dimensionless) called hybrid or h Parameters. Hybrid means “mixed”. Since these parameters have mixed dimensions, they are called hybrid parameters.

Which is the most commonly used transistor configuration Why? The CE configuration is the most widely used configuration and n-p-n transistors are the most commonly used transistors. Common emitter transistors are used most widely, because a common emitter transistor amplifier provides high current gain, high voltage gain and high power gain.

What are the benefits of the H parameter?

What are the aims and objectives of circuit training? Circuit training provides many benefits, such as increased strength and muscular endurance, and better heart health and mood. It may also promote weight loss, and it's very time efficient and versatile, increasing the odds that you'll stick with it long-term.

What is the objective of analog communication course? Course Objectives Impart the basic concepts of analog modulation schemes. Describe different types of noise and predict its effect on various analog communication systems. Know the techniques of analog communication and noise analysis in analog communication.

What are the objectives of analog devices?

What are the learning objectives of series circuit? 1. To recognize a series circuit, to distinguish it from a parallel circuit, and to construct and/or interpret a schematic diagram of a series circuit. 2.

What are the 3 main characteristics of circuit training? Benefit 3 outline: The characteristics of circuit training – high volume, minimal rest, maximum output – can be leveraged to eke out a lot of exercise in a short time. This quality makes them the training method of choice for those that are time-strapped.

What is the goal of circuit training your answer? Circuit training involves resistance exercises that work multiple muscle groups, it helps to build overall strength and improves muscular endurance. By performing a variety of exercises with little rest, circuit training can help to challenge your muscles and promote growth.

What is the objective of circuit analysis? The general strategy of circuit analysis is to create and solve a system of independent equations. Circuit analysis, or solving a circuit, means figuring out voltages and currents in each element. Here's an overview of circuit analysis, with some context for the various tools and methods we use to analyze circuits.

What is the course objective of analog electronics? Course objective: develop an understanding of small signal amplifier design using linear transistor models; and its analysis at low and high frequencies, including different feedback topologies and oscillators. The course also indulges power amplifiers, tuned amplifiers and behaviour of noise in an amplifier.

What is the purpose of analog? Analog signals are commonly used in communication systems that convey voice, data, image, signal, or video information using a continuous signal.

What is the purpose of analog communication? Analog communication involves the transmission of information using continuous signals that vary in amplitude, frequency, or phase to represent data. Unlike digital communication, which discretizes data into binary code, analog communication maintains the original form

of the signal throughout transmission.

What is the importance of analog circuits? Analog integrated circuits are becoming highly sought after in the electronics industry due to their compact size, low-power consumption, and high-speed applications. Analog ICs play a vital role in numerous significant applications, including audio and video processing, power management, and sensor interface.

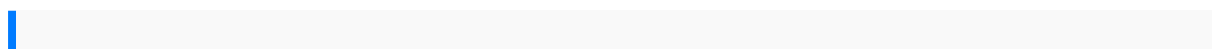
What is an analog electronics circuit? Analog, or linear, circuits typically use only a few components and are thus some of the simplest types of ICs. Generally, analog circuits are connected to devices that collect signals from the environment or send signals back to the environment.

What is the purpose of analog devices? Analog Devices designs and manufactures solutions and systems that power, sense, measure, interpret, secure, and connect the world around us—enabling our customers to convert physical data into digital transformations everywhere from 5G communications to remote healthcare.

What are the objectives of circuit training? The objective of circuit training is to train endurance as well as to strengthen and target muscles in order to improve an individual's flexibility and coordination. Each training session typically includes a combination of both aerobic exercise and strength training.

What is the objective of series and parallel circuit? In series circuits the voltage was shared between the components (in proportion of their resistance). In parallel circuits, every single component gets the full, maximum voltage. Therefore bulbs in parallel will have the same brightness (assuming equal resistance).

What are the objectives of circuit design? The goal of circuit design is to assemble a collection of interconnected circuit elements that perform a specific objective function. The ability to add or multiply numbers is a simple example. The development of a microprocessor that executes computer instructions to perform complex tasks is another example.



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