

Electronics Problems Solutions



Basic Electronics Sample Questions.pdf
PDF

go through this and write down the solutions'



The document contains questions related to basic electronics. Here's a list of the types of solutions required for the problems:

Solutions to Problems in the Document:

1. Theory-based Explanations:

- Explain the structure of BJT and why the collector is larger than the emitter and base.
- Differentiate between CE, CB, and CC configurations.
- Discuss the significance of biasing, load line, Q-point, and faithful amplification.
- Describe diode and transistor operations, including the working of npr/pnp transistors and their configurations.

2. Derivations and Circuit Analysis:

- Determine values like I_B , I_C , V_{CE} , and others using circuit parameters.
- Draw and label I-V characteristics for CE and CB configurations.
- Derive relationships, such as between α , β , γ , or expressions for load line and output current.

3. Numerical Calculations:

- Solve problems involving transistor parameters (β , α).
- Analyze amplifier gains, ripple factors, rectifier efficiencies, and operational amplifier outputs.

4. Diagrams:

- Create and label circuit diagrams, characteristics curves, and energy band diagrams.
- Draw configurations for fixed biasing, amplifiers, rectifiers, and filters.

5. Definitions and Conceptual Explanations:

- Define terms like doping, knee voltage, ripple, and modulation.
- Compare concepts, such as diode vs. Zener diode, LED vs. Laser, and amplitude vs. frequency modulation.

6. Logic Circuits and Digital Electronics:

- Truth tables and conversions for gates like NAND/NOR.
- Explain and draw JK Flip Flop and compare with SR Flip Flop.

7. Physics of Electronics:

- Explain fiber optics principles, such as Snell's Law, acceptance angle, and critical propagation angle.

8. Practical Applications:

- Discuss the application of diodes, operational amplifiers, and transistors in real-world circuits.

Digital Electronics Problems And Solutions

Ying-Ying Zheng



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web nov 8 2018 substation equipment the main equipment in fahari substation consist of transformers to step down the

33kv primary voltage to 11kv suitable for distribution purpose one 33kv 0 415 auxiliary transformer was also needed to supply the substation with reliable ac power circuit breakers

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web jul 23 2020 switchyard layout low level layout of the switchyard of step up station should be provided layout of switchyard may be generally designed in accordance with central board of irrigation and power manual on substation layout for 36 kv and above rural electrification standard be adopted for 12 kv substations see figure 3

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web a single line diagram of a 33 11kv substation is shown below it consists of a 33 kv incoming feeder a 11 kv outgoing feeder and a transformer the transformer has a capacity of 100 mva a 33 11kv substation is a type of electrical substation that is used to supply 33 000 volts 33 kv of alternating current ac to 11 000 volts 11 kv ac

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web the basic layout diagram of the substation switchyard shown in figure 1 illustrates the most common configuration of a typical step down air insulated substation for sub transmission and primary distribution in load centers

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web oct 10 2019 this isolator prevents the instruments to get damaged it also allows the only need of voltage and rest is earthed by itself insulators are used in electrical equipment to support and separate electrical conductors without allowing current through themselves 18 single line diagram thankyou ppt on 33 11kv substation download as a pdf

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web for example take the reaction of lead ii nitrate with hydrochloric acid to form lead ii chloride and nitric acid shown below
$$\text{Pb(NO}_3)_2 \text{ (aq)} + 2 \text{HCl (aq)} \rightarrow \text{PbCl}_2 \text{ (s)} + 2 \text{HNO}_3$$

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web answer key to practice problems on net ionic equations molecular $\text{AgNO}_3 \text{ (aq)} + \text{KCl (aq)} \rightarrow \text{AgCl (s)} + \text{KNO}_3 \text{ (aq)}$ total ionic $\text{Ag}^+ \text{ (aq)} + \text{NO}_3^- \text{ (aq)} + \text{K}^+ \text{ (aq)} + \text{Cl}^- \text{ (aq)} \rightarrow \text{AgCl (s)} + \text{K}^+ \text{ (aq)} + \text{NO}_3^- \text{ (aq)}$

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web you may have to consult the solubility rules write the net ionic equation for the reaction of $\text{BaCl}_2 \text{ (aq)} + \text{Na}_2\text{SO}_4 \text{ (aq)}$ you may have to consult the solubility rules write

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molecular equation ionic equation net ionic

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web choose the correct net ionic equation representing the reaction that occurs when solutions of potassium carbonate and copper i chloride are mixed a $\text{k}_2\text{co}_3 \text{aq}$ $2\text{cucl} \text{aq}$

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web the net ionic equation is the chemical equation that shows only those elements compounds and ions that are directly involved in the chemical reaction notice that in

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web the net ionic equation for equation 1 is given as equation 3 $\text{s}_2 \text{aq}$ $\text{fe}_2 \text{aq}$ gt fes s eq 3 8 note that the phase indicator aq is optional on ionic species but is

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web cu clo_4 2 is soluble all perchlorates are soluble while pbso_4 is insoluble sulfates are generally soluble except for pb^2 ba^2 hg_2^2 and sr^2 the net ionic equation is

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web solution from the laws of motion in the case of rotational motion we know that $\omega = \omega_0 + \alpha t$ from the given data $\omega_0 = 900 \text{rpm}$
 $900 \times 2\pi / 60 \text{ rad/s}$ $\omega = 0$ and $t = 60 \text{s}$ hence angular deceleration $\alpha = -\pi/2$ question 3 a bus is moving in a circular track of radius 1000cm with a speed of 10m/s

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web newton s first law of motion states the following a body at rest tends to remain at rest a body in motion tends to remain in motion at a constant velocity unless acted on by a net external force recall that constant velocity means that the body moves in a straight line and at a constant speed

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