

ELECTRONICS I

Waveforms

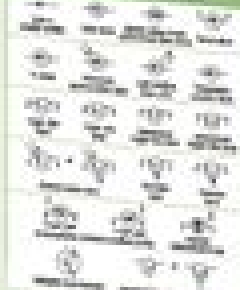


Periodic waveforms
 A periodic waveform is one that repeats itself after a certain interval of time. The interval of time after which the waveform repeats itself is called the period of the waveform.

Frequency
 The number of cycles of a periodic waveform that occur in one second is called the frequency of the waveform.

Amplitude
 The maximum value of a periodic waveform is called the amplitude of the waveform.

Basic Electronic Devices



Diodes in Circuits



Diode in series
 When a diode is connected in series with a load, it allows current to flow only in one direction. If the diode is reverse-biased, it acts as an open circuit.

Diode in parallel
 When a diode is connected in parallel with a load, it allows current to flow in both directions. If the diode is forward-biased, it acts as a short circuit.



Diodes

A diode is a semiconductor device that allows current to flow in one direction only. It is made of two semiconductor materials, one p-type and one n-type, joined together. The junction between the two materials is called the depletion region.

Forward bias
 When a diode is connected in a circuit such that the positive terminal of the battery is connected to the p-type material and the negative terminal is connected to the n-type material, the diode is said to be in forward bias.



Reverse bias
 When a diode is connected in a circuit such that the positive terminal of the battery is connected to the n-type material and the negative terminal is connected to the p-type material, the diode is said to be in reverse bias.



Characteristics of a diode
 The current-voltage (I-V) characteristic of a diode is shown in the graph below. The diode conducts current only in the forward direction.



Applications of diodes
 Diodes are used in many electronic circuits, including rectifiers, voltage regulators, and signal processors.

Advantages of diodes
 Diodes are simple, reliable, and have a long life span.

Disadvantages of diodes
 Diodes have a forward voltage drop and can only handle a limited amount of current.



Diode in a bridge rectifier
 In a bridge rectifier, four diodes are connected in a bridge configuration to convert AC into DC.



Equivalent Circuits



Forward bias equivalent circuit
 In forward bias, a diode is equivalent to a battery with a voltage equal to the forward voltage drop.

Reverse bias equivalent circuit
 In reverse bias, a diode is equivalent to an open circuit.

Applications of equivalent circuits
 Equivalent circuits are used to simplify the analysis of diode circuits.

Advantages of equivalent circuits
 Equivalent circuits are easy to draw and use.

Disadvantages of equivalent circuits
 Equivalent circuits are only valid for DC analysis.



Diode in a circuit
 The current through the diode can be found using the equivalent circuit.



Diode in a circuit
 The voltage across the diode can be found using the equivalent circuit.



Diode in a circuit
 The power dissipated by the diode can be found using the equivalent circuit.



Diodes in Circuits



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Diode in parallel
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1. Understanding the eBook Navy Electronics Study Guide
 - The Rise of Digital Reading Navy Electronics Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Navy Electronics Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Navy Electronics Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Navy Electronics Study Guide
 - Personalized Recommendations
 - Navy Electronics Study Guide User Reviews and Ratings
 - Navy Electronics Study Guide and Bestseller Lists
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- 8. Staying Engaged with Navy Electronics Study Guide
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 - Participating in Virtual Book Clubs
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Navy Electronics Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Navy Electronics Study Guide
 - Fact-Checking eBook Content of Navy Electronics Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web by the end of the course participants will be able to 1 design solar photovoltaic pv systems and their integration to the
power grid based on recommended technical specifications and project requirements 2 administer energy assessments and
site analysis procedures to recommend suitability of sites and optimisation methods for usable space

