

# **MICROWAVE ENGINEERING LAB**

## **VIVA QUESTIONS AND ANSWERS**

1. Why can't conventional tubes be used at microwave frequencies?  
Conventional tubes can't be used at microwave frequencies, because of transit time effect. Load impedance and inter electrode capacitance of the diodes will finally limit the output which may even be zero.
2. What is transit time?  
It is the time taken by the electrons to travel from cathode to anode.
3. What is the operating principle of reflex klystron?  
It works on the principle of velocity modulation and current modulation.
4. What is velocity and current modulation in reflex klystron?  
Variation in velocities of the electrons in the electron beam is called velocity modulation, variation in the current density of the electron beam is referred to as current modulation.
5. How does bunching occur in reflex klystron?  
A reference electron leaving the gap when the gap voltage is zero travels with no change in velocity. An electron leaving the gap earlier during slightly positive voltage is pulled back further into region of space and hence reaches gap longer time than the reference electron to return to the gap. An electron leaving the gap later will face slightly negative voltage and gets retarded. So it returns back after a shorter time in the region of space. Thus all the electrons would return back to the gap in bunches. Bunching around reference electron takes place once per cycle of RF modulation.
6. Why do different modes of operation exist for a reflex klystron?  
There are several combinations of gapler voltage and anode voltage that provide favorable conditions for bunching. Accordingly there are several modes of operation, denoted by  $2N + 1/2$ , where  $N$  is an integer.

# Microwave Engineering Lab Viva Questions

**RS Peters**



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## **Table of Contents Microwave Engineering Lab Viva Questions**

1. Understanding the eBook Microwave Engineering Lab Viva Questions
  - The Rise of Digital Reading Microwave Engineering Lab Viva Questions
  - Advantages of eBooks Over Traditional Books
2. Identifying Microwave Engineering Lab Viva Questions
  - 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 Microwave Engineering Lab Viva Questions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microwave Engineering Lab Viva Questions
  - Personalized Recommendations
  - Microwave Engineering Lab Viva Questions User Reviews and Ratings
  - Microwave Engineering Lab Viva Questions and Bestseller Lists
5. Accessing Microwave Engineering Lab Viva Questions Free and Paid eBooks
  - Microwave Engineering Lab Viva Questions Public Domain eBooks
  - Microwave Engineering Lab Viva Questions eBook Subscription Services
  - Microwave Engineering Lab Viva Questions Budget-Friendly Options

6. Navigating Microwave Engineering Lab Viva Questions eBook Formats
  - ePub, PDF, MOBI, and More
  - Microwave Engineering Lab Viva Questions Compatibility with Devices
  - Microwave Engineering Lab Viva Questions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microwave Engineering Lab Viva Questions
  - Highlighting and Note-Taking Microwave Engineering Lab Viva Questions
  - Interactive Elements Microwave Engineering Lab Viva Questions
8. Staying Engaged with Microwave Engineering Lab Viva Questions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microwave Engineering Lab Viva Questions
9. Balancing eBooks and Physical Books Microwave Engineering Lab Viva Questions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microwave Engineering Lab Viva Questions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Microwave Engineering Lab Viva Questions
  - Setting Reading Goals Microwave Engineering Lab Viva Questions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microwave Engineering Lab Viva Questions
  - Fact-Checking eBook Content of Microwave Engineering Lab Viva Questions
  - 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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