

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 inductance 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 start 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 Answers

Lingjun Ying



Microwave Engineering Lab Viva Questions Answers:

ELECTRONICS LAB MANUAL (VOLUME 2) NAVAS, K. A.,2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students **KEY FEATURES** Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices **TARGET AUDIENCE** B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering **Rad Lab** ,1993 **The Michigan Technic** ,1956 Microwave Journal ,2008

Proceedings American Society for Engineering Education. Conference,1992 Governing Future Technologies Mario Kaiser,Monika Kurath,Sabine Maasen,Christoph Rehmann-Sutter,2009-10-29 Nanotechnology has been the subject of extensive assessment hype unlike any previous field of research and development A multiplicity of stakeholders have started to analyze the implications of nanotechnology Technology assessment institutions around the world non governmental organizations think tanks re insurance companies and academics from science and technology studies and applied ethics have turned their attention to this growing field s implications In the course of these assessment efforts a social phenomenon has emerged a phenomenon the editors define as assessment regime Despite the variety of organizations methods and actors involved in the evaluation and regulation of emerging nanotechnologies the assessment activities comply with an overarching scientific and political imperative Innovations are only welcome if they are assessed against the criteria of safety sustainability desirability and acceptability So far such deliberations and reflections have played only a subordinate role This book argues that with the rise of the nanotechnology assessment regime however things have changed dramatically Situated at the crossroads of democratizing science and technology good governance and the quest for sustainable innovations the assessment regime has become constitutive for technological development The contributions in this book explore and critically analyse nanotechnology s assessment regime To what extent is it constitutive for technology in general for

nanotechnology in particular What social conditions render the regime a phenomenon sui generis And what are its implications for science and society Network World ,1988-12-19 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce Microwaves & RF ,1985 Backpacker ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **Proceedings of the IRE.** ,1962 **Proceedings of the IRE.** Institute of Radio Engineers,1962 Best Life ,2008-04 Best Life magazine empowers men to continually improve their physical emotional and financial well being to better enjoy the most rewarding years of their life **Atlanta Magazine** ,2007-01 Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Atlanta magazine s editorial mission is to engage our community through provocative writing authoritative reporting and superlative design that illuminate the people the issues the trends and the events that define our city The magazine informs challenges and entertains our readers each month while helping them make intelligent choices not only about what they do and where they go but what they think about matters of importance to the community and the region Backpacker ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **Bulletin of the Atomic Scientists** ,1987-10 Broadcasting ,1970 The Engineer ,1998 Applied Science & Technology Index ,1996 Industrial Marketing ,1976 **Japanese Technical Periodical Index** ,1987

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