

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 later 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

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Microwave, Radar & RF Engineering Prakash Kumar Chaturvedi, 2018-06-20 This is a textbook for upper undergraduate and graduate courses on microwave engineering written in a student friendly manner with many diagrams and illustrations It works towards developing a foundation for further study and research in the field The book begins with a brief history of microwaves and introduction to core concepts of EM waves and wave guides It covers equipment and concepts involved in the study and measurement of microwaves The book also discusses microwave propagation in space microwave antennae and all aspects of RADAR The book provides core pedagogy with chapter objectives summaries solved examples and end of chapter exercises The book also includes a bonus chapter which serves as a lab manual with 15 simple experiments detailed with proper circuits precautions sample readings and quiz viva questions for each experiment This book will be useful to instructors and students alike

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

2005 *Joint Assembly* American Geophysical Union. Joint Assembly, 2005

Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004

Basic Microwave Techniques and Laboratory Manual M. L. Sisodia, G. S. Raghuvanshi, 1987

Microwave Engineering Including Lab Works M. Kulkarni, 2005

MICROWAVE ENGINEERING Dr. K.T. Mathew, 2011-04-01

Special Features Excellent authorship Good combination of theory and applications Numerous worked out problems provided Questions and Problems at the end of each chapter Summary at the end of each chapter for quick review All topics are presented in concise form First chapter on Vector Calculus to equip students for understanding the topics First 6 chapters are useful for the first

year undergraduate engineering students Chapter 7 onwards are devoted exclusively to Microwaves The last chapter Chapter 14 is meant for research level those interested in detailed study of microwave materials and other allied fields Six appendices to provide useful and necessary information Laboratory Experiments List of Constants Powers of Ten Equivalence of Units Microwave Bands List of Physical Constants and Units Appendix A Laboratory Experiments consists of three levels of experiments These include basic experiments Part A mini project type experiments Part B and higher level experiments for the students of microwave specialization About The Book This book introduces microwaves and explains the salient features In the first 6 chapters of the book the basic electromagnetics is discussed The higher portions in electromagnetics such as electromagnetic wave propagation in free space bounded media including transmission lines and wave guides microwave generators important waveguide components microwave radio propagation Radar ionospheric and satellite propagations are discussed in the proceeding chapters The last chapter is exclusively meant for those who are doing research on microwave propagation and materials study It deals with the essentials of microwave propagation Solved problems are also given where ever necessary Multiple Choice Questions and Problems and Questions are provided at the end of each chapter for practice Six appendices Laboratory Experiments List of Constants Powers of Ten Equivalence of Units Microwave Bands List of Physical Constants and Units are provided at the end of the book Appendix A Laboratory Experiments consists of three levels of experiments These include basic experiments Part A mini project type experiments Part B and higher level experiments for the students of microwave specialization

Microwave and Optical Communications Lab Manual Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Foundations for Microwave Engineering Robert E. Collin, 1966 *Microwave Engineering with Wireless Applications* S. R. Pennock, P. R. Shepherd, 1998 As the radio frequency is quickly filling with wireless services mobile communication applications have turned to microwaves Here is the fundamental guide to both basic microwave engineering principles and the latest wireless applications The book fully explains the connection between microwaves and wireless technologies providing convenient one volume coverage of communications radar and antenna applications

Research and Investigation of Selected Microwave Problems, Interim Engineering Report No. 5 Stanford University. Microwave Laboratory, 1964 *Microwave Engineering Laboratory Manual* James Wigle, 2012-04-25 This text intends to supplement Dr Wigle s University of Colorado at Colorado Springs Microwave Measurements Laboratory ECE 4150 and ECE 5150 The content is written for undergraduate and graduate courses in applied microwave engineering and laboratory measurements The intent is not to replace textbooks describing electromagnetics field theory but focus upon real world applied applications experiments and measurements Therefore minimal theory will be provided within verbal course content This material is

designed for students having successfully completed two undergraduate courses in electromagnetic field theory. The course should expose students to equipment and techniques used in microwave experiments as well as the design of microwave circuits and microwave experiments. Suitable for basic laboratory courses in electromagnetics. Rules of thumb, practical information. Essential electromagnetic basics to perform experiments. Microwave component parameters. Decibel math. **Microwave Engineering** Sudhakar M. & Khare Vandana, 2017. Microwave Engineering is intended as a textbook catering to the needs of third year undergraduate students of Electronics Communication Engineering. Microwave Engineering is a prerequisite for courses like Radar Systems, Microwave Integrated Circuits and Satellite Communications. Foundations for Microwave Engineering, 2nd Ed Robert E. Collin, 2007. About The Book: The book covers the major topics of microwave engineering. Its presentation defines the accepted standard for both advanced undergraduate and graduate level courses on microwave engineering. It is an essential reference book for the practicing microwave engineer. **Solutions Manual to Microwave Engineering** David M. Pozar, 1990. **FUNDAMENTALS OF MICROWAVE ENGINEERING** Verma Seema, Singh Anoop, 2009. This book is primarily designed for courses in Microwave Engineering for undergraduate students of Electronics and Communication Engineering. Besides it would be a useful text for students pursuing AMIE courses and M Sc students pursuing courses in physics and electronic sciences. The book explains the basic principles with a view to providing the students with a thorough understanding of microwave devices and circuits. It explains the analysis and design techniques used in microwave engineering. It provides a unified presentation of solid state devices, microwave tubes, TWTs, klystrons, magnetrons and microwave circuits. Concentrating on clarity of explanation, the text provides a comprehensive presentation of the relevant theoretical aspects to allow students to easily assimilate this highly mathematical subject. Microwave Engineering Handbook: Microwave circuits, antennas, and propagation Bradford L. Smith, Michel H. Carpentier, 1993. Microwave Engineering - I V.S. Bagad, 2009. **Microwave and RF Engineering** Roberto Sorrentino, Giovanni Bianchi, 2010-04-30. An essential text for both students and professionals combining detailed theory with clear practical guidance. This outstanding book explores a large spectrum of topics within microwave and radio frequency (RF) engineering encompassing electromagnetic theory, microwave circuits and components. It provides thorough descriptions of the most common microwave test instruments and advises on semiconductor device modelling. With examples taken from the authors' own experience, this book also covers network and signal theory, electronic technology with guided electromagnetic propagation, microwave circuits such as linear and non-linear circuits, resonant circuits and cavities, monolithic microwave circuits, MMICs, wireless architectures and integrated circuits, passive microwave components, control components, microwave filters and matching networks. Simulation files are included in a CD Rom found inside the book. Microwave and RF Engineering presents up to date research and applications at different levels of difficulty, creating a useful tool for a first approach to the subject as well as for subsequent in-depth study. It is therefore indispensable reading for advanced

professionals and designers who operate at high frequencies as well as senior students who are first approaching the subject

Microwave Engineering David M. Pozar, 2020

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. 2. What does the /etc/resolv.conf file do? What do the nameserver lines in
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