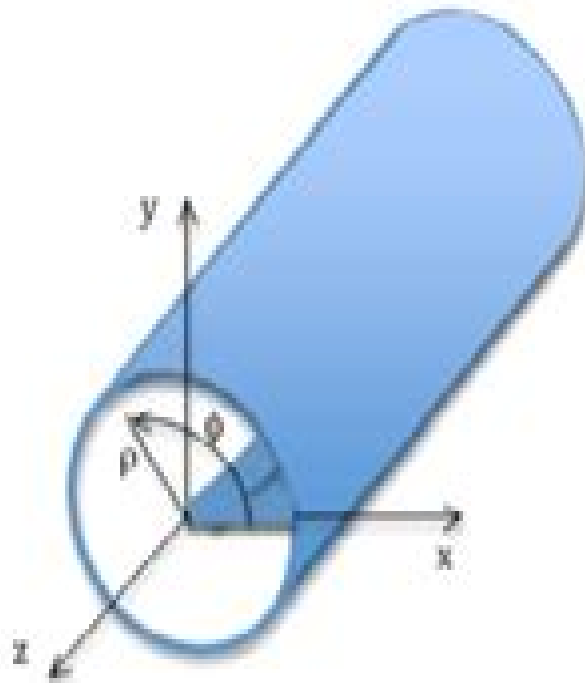


5. An air-filled circular waveguide of radius a has a conducting plate placed along its length at $\phi = 0$ extending from $\rho = 0$ to a , as shown in Figure below.



- i) For the TE modes, derive expressions for the cutoff frequencies and propagation constant, β , along the axis of the guide.

Hint: Follow the derivation in the textbook for circular waveguide (Section 3.4) but now with additional Boundary Conditions for the tangential electric field at $\phi = 0$ and $\phi = 2\pi$.

Air Filled Circular Waveguide Calculation

K K Sharma



Air Filled Circular Waveguide Calculation:

Fields, Waves and Transmission Lines M. Benson, 2012-12-06 One of us FAB published a book *Problems in Electronics with Solutions* in 1957 which became well established and ran to five editions the last revised and enlarged edition appearing in 1976 When the first edition was written it covered almost the complete undergraduate electronics courses in engineering at universities One book at a price students can afford can no longer cover an undergraduate course in electronics It has therefore been decided to produce a book covering one important section of such a course using the experience gained and a few problems from previous editions of *Problems in Electronics with Solutions* The book is based largely on problems collected by us over many years and given to undergraduate electronic and electrical engineers Its purpose is to present the problems together with a large number of their solutions in the hope that it will prove valuable to undergraduates and other teachers It should also be useful for Master's degree students in electronic and electrical engineering and physics research workers engineers and scientists in industry and as a reference source

The Electrical Engineering Handbook Wai Kai Chen, 2004-11-16 The *Electrical Engineer's Handbook* is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer's first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for all practitioners and students The *Electrical Engineer's Handbook* provides the most up to date information in Circuits and Networks Electric Power Systems Electronics Computer Aided Design and Optimization VLSI Systems Signal Processing Digital Systems and Computer Engineering Digital Communication and Communication Networks Electromagnetics and Control and Systems About the Editor in Chief Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems He was Editor in Chief of the *IEEE Transactions on Circuits and Systems* Series I and II President of the *IEEE Circuits and Systems Society* and is the Founding Editor and Editor in Chief of the *Journal of Circuits Systems and Computers* He is the recipient of the Golden Jubilee Medal the Education Award and the Meritorious Service Award from the *IEEE Circuits and Systems Society* and the Third Millennium Medal from the *IEEE* Professor Chen is a fellow of the *IEEE* and the American Association for the Advancement of Science 77 chapters encompass the entire field of electrical engineering THOUSANDS of valuable figures tables formulas and definitions Extensive bibliographic references

Microwave Engineering Ahmad Shahid Khan, 2014-03-24 Detailing the active and passive aspects of microwaves *Microwave Engineering Concepts and Fundamentals* covers everything from wave propagation to reflection and refraction guided waves and transmission lines providing a comprehensive understanding of the underlying principles at the core of microwave engineering This

encyclopedia text not only encompasses nearly all facets of microwave engineering but also gives all topics including microwave generation measurement and processing equal emphasis Packed with illustrations to aid in comprehension the book Describes the mathematical theory of waveguides and ferrite devices devoting an entire chapter to the Smith chart and its applications Discusses different types of microwave components antennas tubes transistors diodes and parametric devices Examines various attributes of cavity resonators semiconductor and RF microwave devices and microwave integrated circuits Addresses scattering parameters and their properties as well as planar structures including striplines and microstrips Considers the limitations of conventional tubes behavior of charged particles in different fields and the concept of velocity modulation Based on the author's own class notes Microwave Engineering Concepts and Fundamentals consists of 16 chapters featuring homework problems references and numerical examples PowerPoint slides and MATLAB based solutions are available with qualifying course adoption

Electromagnetic Fields Ahmad Shahid Khan, Saurabh Kumar Mukerji, 2020-10-11

The study of electromagnetic field theory is required for proper understanding of every device wherein electricity is used for operation The proposed textbook on electromagnetic fields covers all the generic and unconventional topics including electrostatic boundary value problems involving two and three dimensional Laplacian fields and one and two dimensional Poissonion fields magnetostatic boundary value problems eddy currents and electromagnetic compatibility The subject matter is supported by practical applications illustrations to supplement the theory solved numerical problems solutions manual and Powerpoint slides including appendices and mathematical relations Aimed at undergraduate senior undergraduate students of electrical and electronics engineering it Presents fundamental concepts of electromagnetic fields in a simplified manner Covers one two and three dimensional electrostatic boundary value problems involving Laplacian fields and Poissonion fields Includes exclusive chapters on eddy currents and electromagnetic compatibility Discusses important aspects of magneto static boundary value problems Explores all the basic vector algebra and vector calculus along with couple of two and three dimensional problems

Fundamental of Microwave & Radar Engineering K K Sharma, 2011

For B E B Tech Students This book is intended as an introductory text on MICROWAVE and RADAR ENGINEERING The fundamentals principle on microwave theory and techniques are thoroughly expalined in the simplest language IT contains comprehensive up to date text for a standard course on transmission lines waveguides passive waveguide components ferrite devices microwave tubes microwave semiconductor devices microwave measurements microwave antennas and various microwave communication systems This book also covers the RADAR system and microwave propogation at length This written text is supplemented with a large number of suitable diagrams photographs and a good number of solved examples for better understanding of subject

Electromagnetics for Engineering Students (Part 2) Sameir M. Ali

Hamed, 2018-04-09 Electromagnetics for Engineering Students is a textbook in two parts Part I and II that cover all topics of electromagnetics needed for undergraduate students from vector analysis to antenna principles In both parts of the book the

topics are presented in sufficient details such that the students will follow the analytical development easily Each chapter is supported by many illustrative examples solved problems and the end of chapter problems to explain the principles of the topics and enhance the knowledge of the student There are a total of 681 problems in the both parts of the book as follows 162 illustrative examples 88 solved problems and 431 end of chapter problems This part is a continuation of Part I and focuses on the application of Maxwell's equations and the concepts that are covered in Part I to analyze the characteristics of wave propagation in half space and bounded media including metamaterials Moreover a chapter has been devoted to the topic of antennas to provide readers with the fundamental concepts related to antenna engineering The key features of this part In addition to the coverage of classical topics in electromagnetic normally covered in the similar available texts this part of the book adds some advanced concepts and topics such as Application of multi pole expansion for vector potentials More detailed analysis on the topic of waveguides including circular waveguides Refraction through metamaterials and the concept of negative refractive index Detailed and easy to follow presentation of mathematical analyses and problems An appendix of mathematical formulae and functions

Finite Element Method for Eigenvalue Problems in Electromagnetics C. J. Reddy, 1994 *Microwave Engineering* M. L. Sisodia, 2005 This Book Has Been Written Strictly According To The Latest Syllabus Prescribed By U P Technical University Lucknow For Undergraduate Students Of Electronics Communication Engineering Its First Chapter Discusses The Microwave Propagation Through Waveguides The Second Chapter Describes Microwave Cavity Resonators Third Chapter Deals With Microwave Components Chapter Four Explains Various Microwave Measurements The Chapter Five Discusses Limitations Of Conventional Active Devices At Microwave Frequencies And Introduces Various Microwave Tubes And Their Classification Chapter Six Is Divided Into Three 6A 6B 6C And Discusses O Type 6A 6B And M Type 6C Tubes Microwave Semiconductor Devices Have Been Discussed In Chapters Seven To Nine Microwaves And Their Applications Are Described In An Introduction Authors Have Taken Special Care In Keeping A Balance Between Mathematical And Physical Approach Large Number Of Illustrative Diagrams Have Been Incorporated A Good Number Of Solved Problems Picture From University Examination Papers Have Been Included For Reinforcing The Key Concepts **Microwave Engineering** Sudhakar M. & Khare Vandana, 2017 Microwave Engineering is intended as textbook catering 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

ELECTROMAGNETIC WAVES AND TRANSMISSION LINES R. S. RAO, 2012-01-17 This systematic and well written book provides an in depth analysis of all the major areas of the subject such as fields waves and lines It is written in a simple and an easy to understand language Beginning with a discussion on vector calculus the book elaborately explains electrostatics including the concepts of electric force and field intensity electric displacement Gauss law conductors dielectrics and capacitors This is followed by a detailed study of magnetostatics covering Biot Savart law Lorentz's force law and Ampere's

circuit law Then it discusses Maxwell's equations that describe the time-varying fields and the wave theory which is the basis of radiation and wireless communications Finally the book gives a fair treatment to transmission line theory which is a foundation course in mechanical engineering The text is well supported by a large number of solved and unsolved problems to enhance the analytical skill of the students The problems are framed to test the conceptual understanding of the students It also includes plenty of objective type questions with answers It is intended as a textbook for the undergraduate students of Electrical and Electronics Engineering and Electronics and Communication Engineering for their course on Electromagnetic Waves and Transmission Lines

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