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EC6503 - TRANSMISSION LINES AND WAVEGUIDES. AMSEC/ECE Prepared By : Mr.R.Vembu, AP/ECE. TRANSMISSION LINES AND WAVEGUIDES. UNIT I - TRANSMISSION LINE THEORY. 1. Define – Characteristic Impedance [M/J – 2006, N/D – 2006] Characteristic impedance is defined as the impedance of a transmission line measured at the sending end.

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Derive the expression for the input impedance of a transmission line Hence obtain the input impedance for a loss less line (ec6503 transmission lines and wave guides important questions) 9. A transmission line operating at 10^8 rad/s has $\alpha = 8$ dB/m, $\beta = 1$ rad/m. and $Z_0 = 60 + j40$ ohms, and is 2meter long.

EC6503 Transmission Lines and Wave Guides Important questions

EC6503 Transmission lines and Waveguides Department of ECE 2018 - 2019 2 9. Find the characteristic impedance of the line at 1600 Hz if $Z_{oc} = 750 - j30\Omega$ and $Z_{sc} = j20\Omega$ (Nov 2016). Solution: Characteristic impedance, $Z_0 = \sqrt{Z_{oc} Z_{sc}} = \sqrt{750 - j30 \times j20} = 0.825 \times 10^3 = 825\Omega$.

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Semester V Transmission Lines And EC6503 – Transmission Lines and WaveguidesV Semester – Question Bank Department of Electronics and Communication Engineering5 10. Consider a 30 m long lossless transmission line with a characteristic impedance of 50 Ω operating at 2 MHz. The line is terminated in a load impedance of $(60 + j40) \Omega$.

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antenna is mounted on a mast. ec6503 transmission lines and wave guides notes A transmission line is used to connect the transmitter and the antenna. The transmission line has a single purpose for both the transmitter and the antenna.

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Description. Wave travel along a standard, two conductor transmission line is of the TEM (Transverse Electric and Magnetic) mode, where both fields are oriented perpendicular to the direction of travel. TEM mode is only possible with two conductors and cannot exist in a wave guide. Download EC6503 Transmission Lines and Wave Guides – Nov/Dec 2017 Regulation 2013 Question Paper- Click Here.

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The book is written for an undergraduate course on the transmission lines and waveguides. It provides comprehensive coverage of four terminal networks, filters, transmission lines and various types of waveguides. The book starts with explaining the symmetrical and asymmetrical four terminal networks which form the basis of filters. Then book provides the detailed discussion of various types of filters. The discussion of composite filters and crystal filter is also included in the book. The book covers the transmission line parameters in detail along with reflection on a line, reflection loss and reflection factor. The chapter on transmission line at radio frequency includes parameters of line at high frequency, standing waves, standing wave ratio, single stub matching, double stub matching and Smith chart. The book covers the various aspects of guided waves between parallel planes. It also provides the discussion of rectangular and circular waveguides. At the end book incorporates the discussion of resonators. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Electromagnetic Field Theory and Transmission Lines is ideal for a single semester, first course on Electromagnetic Field Theory (EMFT) at the undergraduate level. This book uses diagrammatic representations and real life examples to explain the fu

The importance of measuring instruments is well known in the various engineering fields. The book provides comprehensive coverage of various analog, electronic and digital instruments, d.c. and a.c. bridges, signal generators and analyzers, virtual instrumentation and data acquisition system. The book starts with explaining the theory of measurement including characteristics of instruments, classification, standards, statistical analysis and limiting errors. Then the book explains the various analog and electronic instruments such as PMMC, moving iron, electro-dynamometer type, true RMS, Q-meter and sampling voltmeter. The book also includes the discussion of various d.c. and a.c. bridges along with necessary derivations and phasor diagrams. The book incorporates the detailed discussion of various types of oscilloscopes including simple, dual beam, dual trace, analog storage, sampling and digital oscilloscope. It also explains the various oscilloscope measurements and Lissajous figures. The book further explains the various signal generators and analyzers. It also covers the discussion of DAC, ADC, various digital instruments and data acquisition system. Finally the book provides the details of computer controlled systems, virtual instrumentation and fiber optic measurements. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

A Dictionary of Chemical Engineering is one of the latest additions to the market leading Oxford Paperback Reference series. In over 3,400 concise and authoritative A to Z entries, it provides definitions and explanations for chemical engineering terms in areas including: materials, energy balances, reactions, separations, sustainability, safety, and ethics. Naturally, the dictionary also covers many pertinent terms from the fields of chemistry, physics, biology, and mathematics. Useful entry-level web links are listed and regularly updated on a dedicated companion website to expand the coverage of the dictionary. Comprehensively cross-referenced and complemented by over 60 line drawings, this excellent new volume is the most authoritative dictionary of its kind. It is an essential reference source for

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students of chemical engineering, for professionals in this field (as well as related disciplines such as applied chemistry, chemical technology, and process engineering), and for anyone with an interest in the subject.

The Second Edition of this critically-acclaimed text continues the standard of excellence set in the first edition by providing a thorough introduction to the fundamentals of telecommunication networks without bogging you down in complex technical jargon or math. Although focusing on the basics, the book has been thoroughly updated with the latest advances in the field, including a new chapter on metropolitan area networks (MANs) and new sections on Mobile Fi, ZigBee and ultrawideband. You ' ll learn which choices are now available to an organization, how to evaluate them and how to develop strategies that achieve the best balance among cost, security and performance factors for voice, data, and image communication.

Air and water pollution occurs when toxic pollutants of varying kinds (organic, inorganic, radioactive and so on) are directly or indirectly discharged into the environment without adequate treatment to remove these potential pollutants. There are a total of 13 book chapters in three sections contributed by significant number of expert authors around the world, aiming to provide scientific knowledge and up-to-date development of various solid wastes based cost-effective adsorbent materials and its sustainable application in the removal of contaminates/pollutants from air, gas and water. This book is useful for the professions, practicing engineers, scientists, researchers, academics and undergraduate and post-graduate students ' interest on this specific area. ? Key Features:

- Exclusive compilation of information on use of industrial and agricultural waste based adsorbents for air and water pollution abatement.
- Explores utilization of industrial solid wastes in adsorptive purification and agricultural and agricultural by-products in separation and purification.
- Discusses cost-effective solid wastes based emerging adsorbents.
- Alternative adsorbents in the removal of a wide range of contaminants and pollutants from water is proposed.
- Includes performance of unit operations in waste effluents treatment.

This Second Edition of the go-to reference combines the classical analysis and modern applications of applied mathematics for chemical engineers. The book introduces traditional techniques for solving ordinary differential equations (ODEs), adding new material on approximate solution methods such as perturbation techniques and elementary numerical solutions. It also includes analytical methods to deal with important classes of finite-difference equations. The last half discusses numerical solution techniques and partial differential equations (PDEs). The reader will then be equipped to apply mathematics in the formulation of problems in chemical engineering. Like the first edition, there are many examples provided as homework and worked examples.

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