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Scilab Textbook Companion for Microwave and Radar Engineering by M. Kulkarni 1 Created by Chandawar Saichander ECE Electronics Engineering Sastra University College Teacher N. Raju Cross-Checked by K. V. P. Pradeep May 26, 2016 1 Funded by a grant from the National Mission on Education through ICT,.This Textbook Companion and Scilab codes written in it can be downloaded from the "Textbook ...

The book is primarily designed to cater to the needs of undergraduate and postgraduate students of Electronics and Communication Engineering and allied branches. The book has been written keeping average students in mind. This well-organised and lucidly written text gives a comprehensive view of microwave concepts covering its vast spectrum, transmission line, network analysis, microwave tubes, microwave solid-state devices, microwave measurement techniques, microwave antenna theories, radars and satellite communication. KEY FEATURES □ A fairly large number of well-labelled diagrams provides practical understanding of the concepts. □ Solved numerical problems aptly crafted and placed right after conceptual discussion provide better comprehension of the subject matter. □ Chapter summary highlights important points for quick recap and revision before examination. □ About 200 MCQs with answers help students to prepare for competitive examinations. □ Appropriate number of unsolved numerical problems with answers improves problem solving skill of students. □ Simplified complex mathematical derivations by synthesising them in smaller parts for easy grasping. Audience Undergraduate and Postgraduate students of Electronics and Communication Engineering and allied branches

This book contains the applications of radars, fundamentals and advanced concepts of CW, CW Doppler, FMCW, Pulsed doppler, MTI, MST and phased array radars etc. It also includes effect of different parameters on radar operation, various losses in radar systems, radar transmitters, radar receivers, navigational aids and radar antennas. Key features : -Nine chapters exclusively suitable for one semester course in radar engineering. \* More than 100 solved problems. \* More than 1000 objective questions with answers. \* More than 600 multiple choice questions with answers. \* Five model question papers. \* Logical and self-understandable system description.

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.

This book is based on and describes the operation of the MATLAB Antenna Toolbox modeling tool, which is accessible to virtually every engineering student in the U.S. and abroad. It begins with the simple yet common dipole antenna as a means of illustrating the need to impedance match and to reduce parasitic losses. The book also reviews Maxwell's equations and ties them to antenna analysis via the vector potential. Later chapters introduce the simple loop antenna and its duality to the dipole, as well as a number of practical embodiments using stubs and feed point location. The book concludes with a chapter on antennas that utilize travelling waves along a line. These include long-line antennas, helical antennas, and spiral antennas.

This one-of-a-kind new resource presents cognitive radio from an antenna design perspective and introduces the concept of cognitive radio as a protocol that benefits from under-utilized regions of the spectrum. This book covers topics that govern the operation of a cognitive radio and discusses the use of reconfigurable antennas, reconfigurable filter antennas, and MIMO antennas for cognitive radio. The analysis and design of different antenna systems are presented, compared and evaluated. New approaches to improve spectrum efficiency are explored by demonstrating how to design software controlled cognitive radio antenna systems. This new resource shows how to communicate using either interweave or underlay cognitive radio and demonstrates the benefits of designing appropriate sensing and communicating antennas. The first part of the book introduces the basic concept of cognitive radio and discusses the difference between cognitive radio and software defined radio from the RF system's perspective. The second part of the book discusses the main antenna design requirements, procedures and challenges for cognitive radio. The third part of the book introduces new trends in cognitive radio implementation such as the implementation of MIMO antennas on cognitive radio, the use of machine learning techniques to optimize the performance of a cognitive radio environment, and the implementation of cognitive radar and cognitive radio in space.

Propagation Through Waveguides Rectangular waveguide, Solution of wave equation in rectangular co-ordinates, Derivation of field equations for TE and TM modes degenerate and dominant mode, Power transmission and power loss, Excitation of waveguides, Non-existence of TEM mode in waveguides, Introduction to circular waveguides, Stripline and microstripline. Microwave Cavity Resonators Rectangular and cylindrical cavities, Quality factor, Excitation of cavities. Microwave Components Waveguide couplings, Bends and twists, Transitions, Directional couplers, Hybrid couplers, Matched load attenuators and phase shifters, E-plane, H-plane and Hybrid tees, hybrid ring, Waveguide discontinuities, Windows, Irises and tuning screws, Detectors, Wave meters; Isolators and circulators, Tunable detector, Slotted line carriage, VSWR meter, Scattering matrix. Microwave Measurements Measurement of frequency, Wave length, VSWR, Impedance, Attenuation, Low and high power, Radiation pattern. Limitation of conventional active devices at microwave frequency. Microwave Tubes Klystron, Reflex Klystron, Magnetron, TWT, BWO : Their schematic, Principle of operation, Performance characteristics and applications. Microwave Semiconductor Devices PIN diode, Tunnel diode, LSA diode, Varactor diode, Gunn devices, IMPATT and TRAPATT, Their principle of operation, Characteristics and applications. Principles of Radar Radar block diagram operation, Radar range equation, Radar frequencies, Pulse and C.W. radar, Introduction to Doppler and M.T. Radar, Applications. Radar Transmitters and Devices Block diagram of radar receiver for C.W. and pulse radar, front end amplifier, Receiver noise figure, Duplexers radar antennas, Radar displays, Introduction to radar clutter.

Microwave and Radar Engineering presents the essential features and focuses on the needs of students who take up the subject at undergraduate and postgraduate levels of electronics and communications engineering courses. Spread across 17 chapters, the book begins with a discussion of wave equations and builds upon the topics step by step with ample illustrations and examples that delineate the concepts to the student's benefit. The book will also come in handy for aspirants of competitive examinations.

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