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in the last 40 years the microstrip antenna has been developed for many communication systems such as radars sensors wireless satellite broadcasting ultra wideband radio frequency identifications rfids reader devices etc the progress in modern wireless communication systems has dramatically increased the demand for microstrip antennas in this book some recent advances in microstrip antennas are presented

a previous book titled super dipole antennas which was written by this author introduced a completely new unified broad banding method this method primarily consists of the use of a $1/2$ wavelength dipole which is fed with a $1/4$ or shorter wavelength resonant line the amount of coupling between these two components is greatly reduced and controlled to produce a wide swr

bandwidth this broad banding method is referred to as critically coupled broad banding this new book titled super max dipole antennas is a continuation or addition to the previous book and primarily presents inverted v and horizontal antennas in the 75 80 and 160m bands which are some of the widest hf bands early chapters reintroduce the unified broad banding method presenting inverted v antennas with each of the possible s broad banding configurations presented at various antenna heights with a few newer configurations being presented a totally different broad banding method which uses dual inverted v antennas which can produce very low swr bandwidths at all antenna heights is then presented some of these were previously presented but these are new or improved versions the latter chapters present some completely new broad banding configurations utilizing dual inverted v radiators which in itself creates broad banding but by adding one of several critical coupling configurations double broad banding can be achieved this arrangement can produce swr bandwidths at or below an swr of 1.5:1 across the entire bandwidth at any and all antenna heights this appears to be a notable achievement not occurring often these new and unique configurations introduced will completely change the perception of how antennas are matched and broad banded many of the configurations are very simple and easy to understand most have been reduced in complexity cost of materials and can readily be assembled and these are referred to as super dipole antennas throughout this book configurations presented include charts showing how the far field rf gains and coaxial losses vary across each of the bandwidths giving a good perception of the efficiency on each band all of the antennas throughout this book have been configured with an efficiency in mind and those antennas that have higher losses are scrutinized rigorously and the true performance specifications are shown whether they are good or bad

electronics in advanced research industries a one of a kind examination of the latest developments in machine control in electronics in advanced research

industries industry 4 0 to industry 5 0 advances accomplished electronics researcher and engineer alessandro massaro delivers a comprehensive exploration of the latest ways in which people have achieved machine control including automated vision technologies advanced electronic and micro nano sensors advanced robotics and more the book is composed of nine chapters each containing examples and diagrams designed to assist the reader in applying the concepts discussed within to common issues and problems in the real world combining electronics and mechatronics to show how they can each be implemented in production line systems the book presents insightful new ways to use artificial intelligence in production line machines the author explains how facilities can upgrade their systems to an industry 5 0 environment electronics in advanced research industries industry 4 0 to industry 5 0 advances also provides a thorough introduction to the state of the art in a variety of technological areas including flexible technologies scientific approaches and intelligent automatic systems comprehensive explorations of information technology infrastructures that support industry 5 0 facilities including production process simulation practical discussions of human machine interfaces including mechatronic machine interface architectures integrating sensor systems and machine to machine m2m interfaces in depth examinations of internet of things iot solutions in industry including cloud computing iot perfect for professionals working in electrical industry sectors in manufacturing production line manufacturers engineers and members of r d industry teams electronics in advanced research industries industry 4 0 to industry 5 0 advances will also earn a place in libraries of technicians working in the process industry

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everything controlling the mind without material desires one attains the paramount perfection in cessation of relations by renunciation the bhagvad gita 18 49 compared to traditional carrier based ultra wide band uwb or carrier less systems implement new paradigms in terms of signal generation and reception thus designing an uwb communication system requires the understanding of how excess bandwidth and very low transmitted powers can be used jointly to provide a reliable radio link uwb offers systems transceiver potential for very simple implementations comparison between uwb and traditional narrow band systems highlights the following features large bandwidth enables very fine time space resolution for accurate location of the uwb nodes and for distributing network time stamps very short pulses are effectively counter fighting the channel effect in very dense multipath environments data rate number of pulses transmitted per bit can be traded with power emission control and distance coverage very low power density leads to low probability of signal detection and adds security for all the layers of the communication stack very low power density is obtained through radio regulation emission masks uwb systems are suitable for coexistence with already deployed narrow band systems

the first book to cover all engineering aspects of microwave communication path design for the digital age fixed point to point microwave systems provide moderate capacity digital transmission between well defined locations most popular in situations where fiber optics or satellite communication is impractical it is commonly used for cellular or pcs site interconnectivity where digital connectivity is needed but not economically available from other sources and in private networks where reliability is most important until now no book has adequately treated all engineering aspects of microwave communications in the digital age this important new work provides readers with the depth of knowledge necessary for all the system engineering details associated with fixed point to point microwave radio path design the why what and how of microwave transmission design objectives engineering

methodologies and design philosophy in the bid design and acceptance phase of the project written in an easily accessible format digital microwave communication features an appendix of specialized engineering details and formulas and offers up chapter coverage of a brief history of microwave radio microwave radio overview system components hypothetical reference circuits multipath fading rain fading reflections and obstructions network reliability calculations regulation of microwave radio networks radio network performance objectives designing and operating microwave systems antennas radio diversity ducting and obstruction fading digital receiver interference path performance calculations digital microwave communication engineering point to point microwave systems will be of great interest to engineers and managers who specify design or evaluate fixed point to point microwave systems associated with communications systems and equipment manufacturers independent and university research organizations government agencies telecommunications services and other users

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