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*includes a wealth of  
important updates,  
including discussions on  
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limitations, ethernet  
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fundamentals of  
antennas, especially at  
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and money when  
developing new networks,*

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*and reduces your risk of  
encountering problems  
during design and  
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*An introductory  
treatment of  
communication theory as*

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*applied to the  
transmission of  
information-bearing  
signals with attention  
given to both analog and  
digital communications.  
Chapter 1 reviews basic*

*concepts. Chapters 2 through 4 pertain to the characterization of signals and systems. Chapters 5 through 7 are concerned with transmission of message*

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*signals over  
communication channels.  
Chapters 8 through 10  
deal with noise in  
analog and digital  
communications. Each  
chapter (except chapter*

*1) begins with  
introductory remarks and  
ends with a problem set.  
Treatment is self-  
contained with numerous  
worked-out examples to  
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revision begins with a  
review of static  
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fields, providing a  
wealth of results useful  
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problems in which the  
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small compared with a  
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# **Antenna Design for Communications Engineering**

## **Fundamentals of Wireless Communications**

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transmission, modulation, and error-correction coding, together with the underlying communication and information theory is an all-inclusive text suitable for all those connected with Mechanical Engineering or Computer Science. Equal emphasis is

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from what is now known as 0G, for early radio, through to 6G, for sixth generation cellular radio, is used to present modern microwave and RF engineering concepts. Two key themes unify the text: 1) how system-level decisions affect component,

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circuit and subsystem design; and 2) how the capabilities of technologies, components, and subsystems impact system design. This book is suitable as both an undergraduate and graduate textbook, as well as a career-long reference book. Key

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fundamental concepts of antennas, array antennas and smart antennas. The book fills a gap in the literature by presenting the design techniques of low-cost radio frequency

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depth explorations of the theory and technology of smart antennas. While other resources highlight the software (signal processing algorithms),

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***small signal models that result. These device models are then combined to form a complete link. With these analytical tools in place, a chapter is devoted to examining in detail each of the***

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criteria required to apply these in real engineering situations. Key topics addressed include:  
Microwave diode and transistor equivalent circuits Microwave

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transmission line  
technologies and  
microstrip design Network  
methods and s-parameter  
measurements Smith chart  
and related design  
techniques Broadband and

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low-noise amplifier design

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and phase locked loops

Each chapter is written by

specialists in their field

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and the whole is edited by  
experience authors whose  
expertise spans the fields  
of communications systems  
engineering and microwave  
circuit design. Microwave  
Devices, Circuits and

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field of wireless  
communications. This text  
offers a quantitative and,  
design-oriented  
presentation of the analog  
RF aspects of modern  
wireless

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telecommunications and data transmission systems from the antenna to the baseband level. Other topics include noise, intermodulation, dynamic range, system aspects of

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antennas and filter design. This unique text takes an integrated approach to topics usually offered in a variety of separate courses on topics such as antennas and

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propagation, microwave systems and circuits, and communication systems. This approach allows for a complete presentation of wireless telecommunications systems

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designs. The author's goal with this text is for the student to be able to analyze a complete radio system from the transmitter through the receiver front-end, and

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quantitatively evaluate factors. Suitable for a one-semester course, at the senior or first year graduate level. Note certain sections have been denoted as advanced

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communications environment  
In order to cope with the

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tremendous explosion of the telecommunications market, the field of wireless communications has greatly expanded in the past fifty years, especially in the domains

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of microwave radio systems including line-of-sight, satellites, and tropospheric-scatter. Now, Microwave Engineering: Land & Space Radio-communications answers the

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engineers to the main propagation phenomena that are encountered and that must be considered in the design and planning for any given system type and frequency of operation:

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propagation—An  
introduction to the  
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experimental analysis of  
various diversity and  
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systems, orbital  
parameters, Earth-  
satellite geometry, uplink  
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has grown and matured in many ways, and the use of simulation as a day-to-day tool is now even more common practice. With the current interest in digital mobile

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communications, a primary area of application of modeling and simulation is now in wireless systems of a different flavor from the 'traditional' ones. This second edition

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represents a substantial revision of the first, partly to accommodate the new applications that have arisen. New chapters include material on modeling and simulation of

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industries can be well over 40% per year and it rapidly changes. Some wireless systems that were "hot technologies" just 10 years ago with billions of dollars in investment with national or global presence are simply gone. This information

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transport network of any  
cellular operator requires at  
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as the cellular infrastructure

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