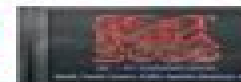



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BASICS OF C & Ku BAND TRANSMISSIONS & LNBS

A satellite broadcasts a few watts of microwave signals from the geostationary orbit 36,000 kilometers above the earth. The transmissions are also broadcast over a wide "footprint" area. The satellite signals suffer an attenuation of approximately 200 dB, while making this 36,000 kilometer journey from the satellite to reception points on the ground. The satellite signals which finally arrive are extremely weak.

A dish antenna is used to collect these weak satellite signals over a large area - the surface of the dish. These signals are then focussed by the parabolic curvature of the dish, to the focal point. Even at the focal point, the satellite signals are only a few micro-watts.

These tiny satellite signals are received and processed by sophisticated electronic equipment. Given the low signal strength, the signals need to be immediately amplified. However, it is very important that the amplification does not contribute any significant amount of noise which would otherwise spoil the weak signals received. This is done by a "Low Noise Amplifier" - LNA.

The LNA actually consist of 2 or 3 amplifying stages that boost the signal to a reasonable level at which it can be further processed. The LNA is designed with an all out effort to keep noise down to the barest minimum.

NOISE TEMPERATURE

The amount of noise added by the LNA to the received signal is indicated in terms of "Noise Temperature". Noise temperature is specified in degrees Kelvin. For all practical purposes, the lower the noise temperature, the better is the LNA's performance. Approximately 10 years ago, a noise temperature of 24 degrees Kelvin was excellent performance for commercial units. However, with today's improved technology, extremely low noise units such as those from Eurostar, offer a noise temperature of 17 deg. K.

Table 1 Indicates Equivalent Noise Specifications in Degrees Kelvin And dB.

NF (dB)	T (K)	NF (dB)	T (K)	NF (dB)	T (K)	NF (dB)	T (K)
0.1	7	1.1	84	2.1	180	3.1	302
0.2	14	1.2	92	2.2	191	3.2	316
0.3	21	1.3	101	2.3	202	3.3	330
0.4	28	1.4	110	2.4	214	3.4	344

Basics Of C Ku Band Transmissions Lnbs

David Kirk



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Advances in Recent Trends in Communication and Networks, 2010 Geolocation of RF Signals Ilir Progri, 2011-01-15 Geolocation of RF Signals Principles and Simulations offers an overview of the best practices and innovative techniques in the art and science of geolocation over the last twenty years It covers all research and development aspects including theoretical analysis RF signals geolocation techniques key block diagrams and practical principle simulation examples in the frequency band from 100 MHz to 18 GHz or even 60 GHz Starting with RF signals the book progressively examines various signal bands such as VLF LF MF HF VHF UHF L S C X Ku and K and the corresponding geolocation requirements per band and per application to achieve required performance objectives of up to 0o precision Part II follows a step by step approach of RF geolocation techniques and concludes with notes on state of the art geolocation designs as well as advanced features found in signal generator instruments Drawing upon years of practical experience and using numerous examples and illustrative applications Ilir Progri provides a comprehensive introduction to Geolocation of RF Signals and includes hands on real world labs and applications using MATLAB in the areas of RF signals specifications RF geolocation distributed wireless communications networks and RF geolocation Geolocation of RF Signals Principles and Simulations will be of interest to government agency program managers industry professionals and engineers academic researchers faculty and graduate students who are interested in or currently designing developing and deploying innovative geolocation of RF Signal systems National Association of Broadcasters Engineering Handbook Graham A. Jones, David H. Layer, Thomas G. Osenkowsky, 2013-04-26 The NAB Engineering Handbook provides detailed information on virtually every aspect of the broadcast chain from news gathering program production and postproduction through master control and distribution links to transmission antennas RF propagation cable and satellite Hot topics covered include HD Radio HDTV 2 GHz broadcast auxiliary services EAS workflow metadata digital asset management advanced video and audio compression audio and video over IP and Internet broadcasting A wide range of related topics that engineers and managers need to understand are also covered including broadcast administration FCC practices technical standards security safety disaster planning facility planning project management and engineering management Basic principles and the latest technologies and issues are all addressed by respected professionals with first hand experience in the broadcast industry and manufacturing This edition has been fully revised and updated with 104 chapters and over 2000 pages The Engineering Handbook provides the single most comprehensive and accessible resource available for engineers and others working in production postproduction networks local stations equipment manufacturing or any of the associated areas of radio and television

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