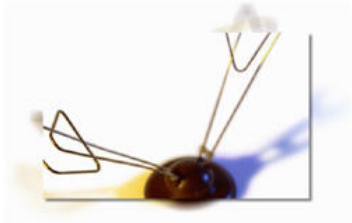


Radio & Transmission



Radio Measurements



In modern radiosolutions the requirements of the radio link is essential for the communication chain. A thorough understanding of radio and transmission fundamentals is very important in phases of development and measurements.

Radio Measurements

OBJECTIVES

- Understanding the..
- measurement terms
- filter characteristics
- transmission line parameters
- measurements with network and spectrum analyzers

TARGET GROUP

- The Radio Measurement is intended for those working with radio and transmission in..
- measurement
 - construction

PRECONDITION

- Basic understanding of electrical measurements and terms is recommended.

Standard Advanced - 1 day

Content

- ✘ **DC/AC fundamentals**
 - Voltage, Current and Power measurements
 - Signal types
 - Reactive components
 - Phase-shift
 - Reactive loads

✘ Measurement terms

- dB
- time – frequency relation (FFT)
- Bandwidth
- Measurements on linear and non-linear nets
- Distortion and compression
- Power measurements
- Noise in electronic circuits and the NF-meter

✘ Fundamentals about..

- .. Filters
- .. Filtering
- .. Mixers

✘ Transmission lines

- Zo
- Reflection
- Matched, open and short circuit load

✘ Network and Spectrum Analyzers

- Reflection vs transmission, Equipment,
- Scalar/Narrowband/Vector
- Block functions
- Common types of measurements

Related Courses: EMC, Jitter Measurements

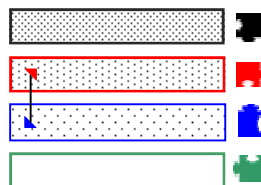


”Transmission is the propagation of a signal by any means, such as by telegraph, telephone, radio, television, or facsimile via any medium, such as wire, coaxial cable, microwave, optical fiber, or radio frequency.” *Wikipedia*

Product

RM-1: Radio Measurements (1 day)

RM-1



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