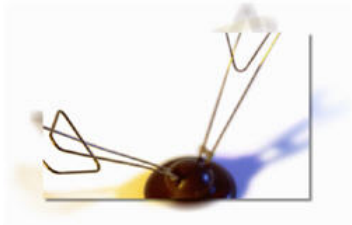


Radio & Transmission



Advanced Antennas for Mobile Communication

We examine modern antenna techniques for mobile applications. We will cover everything from basic antenna principles to advanced system array techniques. Antennas and supporting systems for GSM, UMTS and WLAN applications will also be examined.

Advanced Antennas for Mobile Communication

OBJECTIVES

- Understanding the..
- environmental influence on performance
- antenna diversity systems
- adaptive antennas and lobe steering
- principles of fractal antennas
- antennas by examples
- antenna calculation

TARGET GROUP

The Expert day is intended for people who need a thorough Antenna knowledge with examples of modeling, design and practical examples.

PRECONDITION

The Advanced Antennas for Mobile Communication expects an understanding of the subjects in parity with the Advanced level.

Expert - 1 day

Content

✘ Modeling and design considerations

✘ Antenna performance in real environment

- Basic propagation issues
- Influence from terrain objects
- Safety distances to interfering objects

✘ Antenna Diversity systems

- Common principles
- System examples
- Design considerations

✘ Adaptive antennas and lobe steering

- Principles
- Array types
- Signal processing

✘ Advanced antenna techniques

- Fractal antennas
- Antennas for confined areas

✘ Antenna examples

- Antennas for GSM, UMTS and WLAN
- Antennas for mobile satellite systems
- Mechanical and electrical adjustments

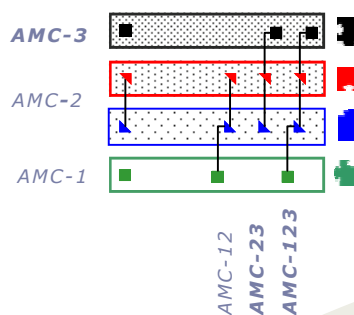
✘ Antenna calculations

Antenna Products

AMC-1: Antennas for Mobile Communication insight (1 day)

AMC-2: Antennas for Mobile Communication (1 day)

AMC-3: Advanced Antennas for Mobile Communication (1 day)



Product Combinations

AMC-12: AMC-1+2 (2 days)

AMC-23: AMC-2+3 (2 days)

AMC-123: AMC-1+2+3 (3 days)



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