

## OFDM and DVB-H - Short Courses for Mobile Technologies

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Digital Video Broadcast for Handheld based on Orthogonal Frequency Division Multiplexing for Advanced Wireless Communications

Starnberg, April 20th, 2007 – hueggenberg gbr, the experienced firm for technical training courses, presents two technical courses for mobile technologies: From May 22nd to 24th the three-day-course "OFDM for Advanced Wireless Communications" (Orthogonal Frequency Division Multiplexing) will take place in Munich. It will be followed by a one-day-course on DVB-H on May 25th. This lecture is based on OFDM ground rules and gives an introduction to the Physical Layer of Digital Video Broadcast for Handhelds (DVB-H).

### OFDM - Orthogonal Frequency Division Multiplexing

OFDM is a bandwidth efficient digital modulation technique which forms the basis of many wireless standards currently under development. The technique is now extremely popular for wireless communications providing the base algorithm technology for common standards such as WLAN, WiMAX and MBWA. Even in the broadcasting world of DVB (digital video broadcast) and DAB (digital audio broadcast) OFDM is becoming more essential. Future evolutions of 3G (LTE) will likely see the adoption of OFDM, as will different modes of the evolving ultra wideband standards. Since OFDM is a complex technology to implement this 3-day short course incorporates everything from the fundamentals, advantages and disadvantages of OFDM modulation to receive synchronisation techniques and case studies of cutting edge standards such as 802.11a/g (WLAN), 802.16 (WiMAX) and 802.20 (MBWA). The syllabus is presented in an intuitive manner, and is underpinned by a strong practical element in which attendees are invited to design and simulate physical layer elements of OFDM systems.

### Digital Video Broadcast for Handheld

This one day course builds on the OFDM principles and introduces the physical layer of Digital Video Broadcast for Handheld (DVB-H). The technology, based on DVB-T, facilitates the delivery of digital TV services to handheld devices. The key OFDM parameters for DVB-T and DVB-H are presented.

The courses are organised by hueggenberg gbr and instructed by Steepest Ascent Ltd, who have more than 10 years of experience in the delivery of professional training. The lectures are coordinated by Prof. Bob Stewart with the assistance of the team at Steepest Ascent. Each attendee will receive a comprehensive set of notes of more than 1200 pages as well as a multimedia CD featuring all printed notes and numerous demos and simulation software for in depth study after the course. Lectures about this topic have been successfully presented in the USA at University of California, Los Angeles (UCLA) as

well as on-site to a number of customers.

Further information and syllabus are available at [www.hueggenberg.com/en/course/course\\_ofdm.htm](http://www.hueggenberg.com/en/course/course_ofdm.htm) and [www.hueggenberg.com/en/course/course\\_dvb-h.htm](http://www.hueggenberg.com/en/course/course_dvb-h.htm) . Download registration form at [www.hueggenberg.com/images/seminars/2007\\_ofdm-en.pdf](http://www.hueggenberg.com/images/seminars/2007_ofdm-en.pdf) . To register or for more information phone: +49 8151 55 50 09-11 and mailto [info\(at\)hueggenberg.com](mailto:info(at)hueggenberg.com) .

#### About hueggenberg

hueggenberg gbr assists high technology companies in the strategic market launch of their services and products. The experts provide sales activities throughout Europe as well as a complete portfolio of national and international marketing and public relations services. This is achieved through their understanding of the importance of networking and communication for a successful expansion in existing and new markets. For more information see [www.hueggenberg.com](http://www.hueggenberg.com).

#### About Steepest Ascent

Steepest Ascent provide digital signal processing solutions in the form of consultancy services, training courses and simulation products. They have built a successful business on their extensive knowledge of DSP, particularly in the area of digital communications. Steepest Ascent have a blue chip client list and the customers have benefited greatly from their capabilities in system level design, software development, digital hardware design / implementation and on-site training. Steepest Ascent simulation products include software libraries for 3G, CDMA2000, Adaptive DSP and automatic HDL code generation. For more information see [www.steepestascent.com](http://www.steepestascent.com).

Mandy Ahlendorf  
Managing Director

hueggenberg gbr  
Maximilianstraße 8  
82319 Starnberg  
Germany

T +49 8151 555009-11  
F +49 8151 555009-10  
[presse\(at\)hueggenberg.com](mailto:presse(at)hueggenberg.com)  
[www.hueggenberg.com](http://www.hueggenberg.com)

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