

K U R S N A M N	F E B	M A R	A P R	M A Y
Grundkurs i Radioelektronik och Mätteknik	11-12 Stockholm		23-24 Lund	
Spektrumanalys 1		11 Stockholm 13 Oslo		
Spektrumanalys 2		12 Stockholm		
Nätverksanalys 1				6 Oslo 7 Stockholm
Nätverksanalys 2				8-9 Stockholm
Grundkurs i Intermodulationsmätningar	13 Stockholm			
Antennteknik			8-9 Stockholm	
Wireless LAN Systems of the Next Generation		31 Aalborg	1 Stockholm	
GPRS – General Packet Radio Services		24-25 Stockholm 26-27 Aalborg		
Basics of Bluetooth – a new technology for wireless communication			10 Stockholm	
3G - Introduction to UMTS Air Interface (FDD)		17-18 Stockholm		
Spectral and baseband analysis of digital modulated carriers			28-29 Aalborg or on request	
MPEG2 Transport-Stream Syntax and Elementary-Stream Encoding				20-21 Stockholm
Digital Terrestrial Television – DVB-T in Theory and in Practice				22-23 Stockholm
EMC Measurement Software EMC32 (EMI and EMS)		26-27 Stockholm		
Basics of Audio measurement	<i>On request!</i>			
Grundkurs i fiberoptisk kommunikation och mätteknik	<i>On request!</i>			
Protocol Layer 2/3 UMTS	<i>On request!</i>			
Special Applications of Network Analysers	<i>On request!</i>			

DON'T HESITATE TO CONTACT US FOR FURTHER INFORMATION!

Please order our product sheets with additional information about contents, target group and prior required knowledge, info@rss.rohde-schwarz.com alternatively phone +46-8-605 19 00 Therése Österdahl, Training Center. Visit our homepage www.rss.rohde-schwarz.com for the latest training program and registration.

The following trainings are not scheduled in the program but can be offered on request.

- GSM 900/1800 Digital Mobile Communication
- EMC-Electromagnetic Compatibility
- DECT-Digital Cordless Telecommunication
- Bluetooth Qualification Program
- TETRA25 – Digital Trunked Radio
- PTW60 – Protocol Tester for Bluetooth (tm)
- EMI System Software ES-Kxx: Script Development Using Script Development Kit
- Operation of Coverage Measurement Software ROMES
- Remote control of test instruments via the IEEE 488-Bus
- User training (getting started, possibilities/limitations, menus, special applications)



NORDIC TRAINING CENTER

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Nordic Training Center

Spring 2003



ROHDE & SCHWARZ

Rohde & Schwarz shows you the way to the best tools and most effective methods.

Rohde & Schwarz develops, produces and markets communications and T&M instruments and systems with emphasis on mobile radio, broadcasting, EMC measurements, general-purpose and RF test equipment, radio monitoring and radiolocation, radio-communications as well as IT security.

Rohde & Schwarz was founded almost 70 years ago and has its headquarters in Munich with subsidiaries and representatives in over 70 countries.

The Swedish subsidiary was founded in 1984 and has 40 employees.

The Danish company was established in 1990 and has 31 employees. The Baltic States and Iceland are managed by the Danish subsidiary.

In Norway, Rohde & Schwarz founded a subsidiary in 1994 and has 13 employees.



Welcome to Rohde & Schwarz Nordic Training Center!

**A co-operation between the R&S companies in Sweden, Norway,
Denmark and the Baltic countries.**

As a user of Rohde & Schwarz equipment you have access to state-of-the-art equipment for T&M and mobile communication.

To utilise your equipment in the most efficient way we offer you a wide range of trainings.

Our experienced instructors come not only from Rohde & Schwarz, but also from universities and the industry. This ensures that the participants will learn both current and emerging technologies.

We offer a variety of trainings so both newcomers and specialists will find a seminar especially suited for their requirements.

OPEN SCHEDULED TRAININGS In this folder you can read about the open scheduled trainings spring 2003. These trainings are held in Stockholm, Lund, Copenhagen, Aalborg and Oslo.



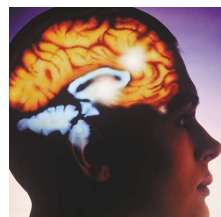
TAILORED TRAININGS If you require specialized training in your company we can arrange trainings especially adapted to your demands. These trainings can be arranged at your premises or at your local Rohde & Schwarz company.

LANGUAGES The trainings are given in Swedish or English.

THEORY AND PRACTICE Most trainings focus on theoretical review alternating with practical demonstrations and exercises using the latest test and communication equipment.



QUALITY Every participant receives training documentation and a diploma. All documentation is uniquely developed and produced by Rohde & Schwarz Training Center. In order to maintain a high quality and to develop our trainings further each training is carefully evaluated at the end through questionnaires. Tailored seminars are evaluated personally.



We limit the number of participants for all our trainings. This increases receptivity and supports the dialogue between instructor and participant. The know-how transfer is intensified and individual problems can be discussed in greater details.

Grundkurs i Radioelektronik och Mätteknik

- Radiokommunikation – översikt
- Spänning och ström, impedans, bandbredd, Q-värde, decibelbegreppet
- Passiva komponenter
- Brus, brusällor, signal-brus-förhållande, brustemperatur, brusfaktor, SINAD
- Radiomottagare, superheterodynprincipen
- Förstärkare, interceptpunkt, kompressionspunkt, dynamiskt område
- Analog modulation, AM, FM, QAM, modulationsvinst
- Digital modulation
- Spektrumanalysatorn
- Transmissionsledningar, reflexionskoefficient, SVR, Smith-diagrammet
- Kablar, kontaktdon, effektdelare, riktkopplare, cirkulator
- Antenner, vågutbredning, länkbudget
- Nätverksanalysatorn.

ÖVNINGAR/LABORATIONER

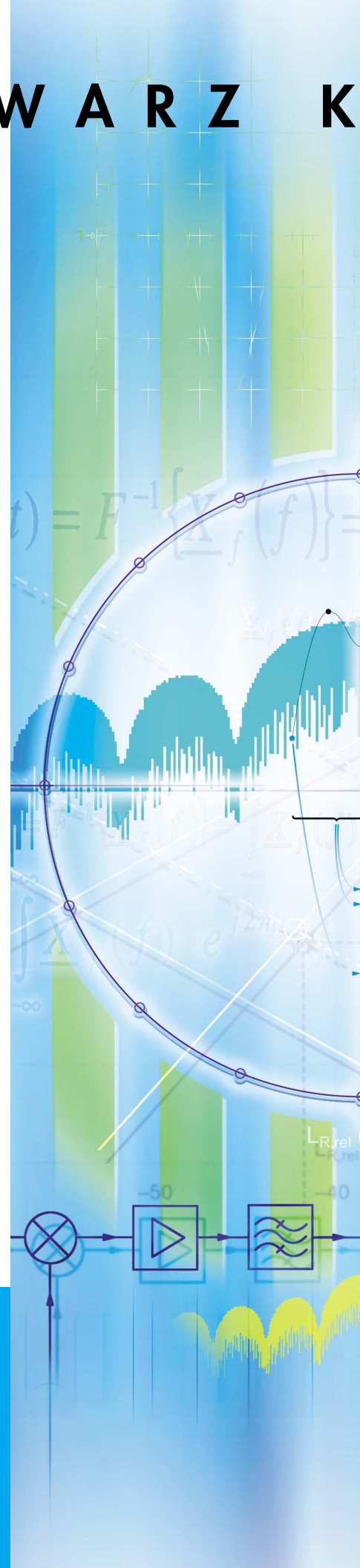
- Mätning med spektrumanalysator – modulerade signaler, förstärkare, förstärkning, kompressions- och interceptpunkt
- Mätning med nätverksanalysator – passiva komponenter och kablar, antenner, dipolantenn, jordplansantenn
- Mätning med radiotestinstrument – sändare, frekvens, uteffekt, modulation, mottagare, känslighet, grannkanalselektivitet

DATUM & PLATS

TILLFÄLLE 1:	11-12 februari, Stockholm
TILLFÄLLE 2:	23-24 april, Lund
OMFATTNING:	2 dagar
KURSAVGIFT:	7 800 SEK/pers
KURSLÄDARE:	Göran Jönsson
SPRÅK:	Svenska
SISTA ANMÄLNINGSDAG	
TILLFÄLLE 1:	28 januari
TILLFÄLLE 2:	9 april



GÖRAN JÖNSSON Mer än 20 års erfarenhet av undervisning i radioelektronik vid Lunds Tekniska Högskola. Civilingenjörsexamen 1978 och teknologie licentiatexamen 1988. Ansvarar för ett flertal radioelektronikrelaterade kurser i Lund och Helsingborg. Arbetar aktivt med kursutveckling.



Spektrumanalys 1

- Frekvensanalys med fokus på superheterodyn-principen
- Grundläggande mätningar med spektrumanalysator
- Spektrumanalysators uppbyggnad
- Felkällor hos en superheterodynmottagare och hur dessa kan kompenseras
- Dynamik och intermodulation
- Olika typer av detektorer
- Sammanfattning av speciella möjligheter och funktioner
 - Synkroniserade mätningar (Gated Measurements)
 - Mätning av brus och fasbrus

DATUM & PLATS

TILLFÄLLE 1:	11 mars, Stockholm
TILLFÄLLE 2:	13 mars, Oslo
OMFATTNING:	1 dag
KURSAVGIFT:	4 200 SEK/pers, 3 600 NOK/pers
KURSLIDARE:	Göran Jönsson
SPRÅK:	Svenska
SISTA ANMÄLNINGSDAG	
TILLFÄLLE 1:	24 februari
TILLFÄLLE 2:	24 februari



Boken "Fundamentals of Spectrum Analysis" ingår!

Spektrumanalys 2

- Översikt
- Mätning av bredbandiga signaler
 - Total effekt (Channel Power Measurement)
 - Brusmarkör
 - Medelvärdesbildning
 - Grannkanaleffekt (ACPR)
 - Dynamiskt område
- TDMA- signaler
 - Synkroniserade mätningar (Gated measurements)
 - EVM (Error Vector Magnitude)
 - Spektrumanalys av GSM/EDGE-signaler
- CDMA-signaler
 - Mätning i kod-domänen
 - Mätning av WCDMA-signaler
- Mätning av brusfaktor och fasbrus

DATUM & PLATS:

DATUM & PLATS:	12 mars, Stockholm
OMFATTNING:	1 dag
KURSAVGIFT:	4 200 SEK/pers
KURSLIDARE:	Göran Jönsson – Olaf Eissrig
SPRÅK:	Svenska
SISTA ANMÄLNINGSDAG	24 februari



OLAF EISSRIG från Berlin, Tyskland. Civilingenjörsexamen 1998 i Berlin med inriktning telekommunikation. Anställd sedan 1999 på Rohde & Schwarz Sverige AB som applikationsingenjör. Ansvarar för teknisk support. Arbetar aktivt med utveckling och genomförande av företagsanpassade kurser inom bl a 3G. Stor erfarenhet av test- och mätinstrument.

Nätverksanalys 1

- Grundläggande nätverksteori – Impedans, vågor, reflektion, Smith-diagram, S-parametrar
- Nätverksanalysatorns uppbyggnad
- Kalibrering
- Mätningar med nätverksanalysatorn – reflektionskoefficient, S-parametrar, impedans
- Speciella mätningar, optioner – kompressionspunkt, interceptpunkt, blandare
- Grunder i R&S nätverksanalysator – familjen ZVx

DATUM & PLATS

TILLFÄLLE 1:	6 maj, Oslo
TILLFÄLLE 2:	7 maj, Stockholm
OMFATTNING:	1 dag
KURSAVGIFT:	4 200 SEK/pers, 3 600 NOK/pers
KURsledARE:	Göran Jönsson
SPRÅK:	Svenska
SISTA ANMÄLNINGSDAG	
TILLFÄLLE 1:	22 april
TILLFÄLLE 2:	22 april

Nätverksanalys 2

Inriktat på applikationer och praktiska laborationsövningar

- Speciella mätningar med nätverksanalysatorn
- Mätning på blandare
- Mätning på förstärkare – mätning av kompressionspunkt – mätning av interceptpunkt
- Embedding + De-embedding
- Tidsdomän (TDR)

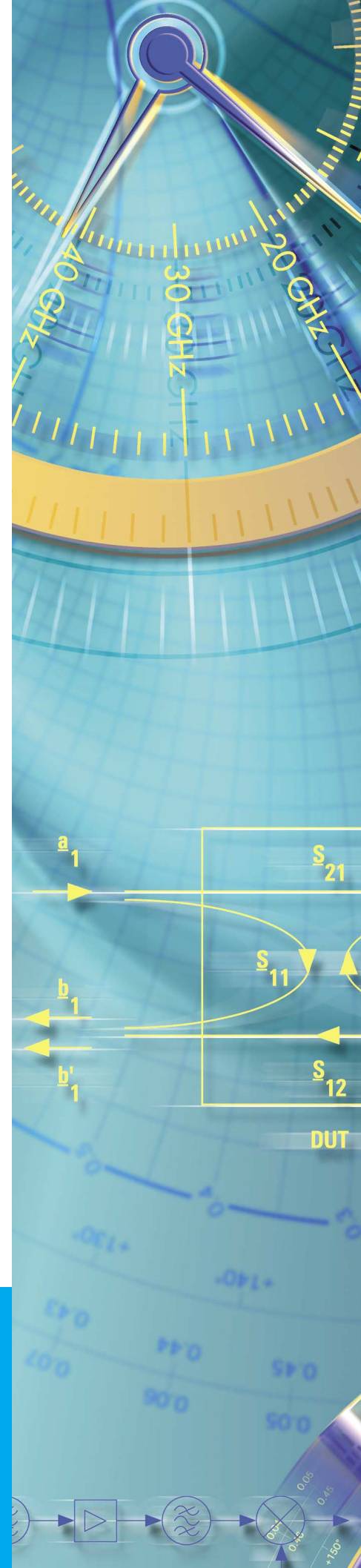
DATUM & PLATS

TILLFÄLLE 1:	8-9 maj, Stockholm
OMFATTNING:	2 dagar
KURSAVGIFT:	7 800 SEK/pers
KURsledARE:	Göran Jönsson
SPRÅK:	Svenska
SISTA ANMÄLNINGSDAG	
TILLFÄLLE 1:	22 april



GÖRAN JÖNSSON Mer än 20 års erfarenhet av undervisning i radioelektronik vid Lunds Tekniska Högskola. Civilingenjörsexamen 1978 och teknologie licentiatexamen 1988.

Ansvarar för ett flertal radioelektronikrelaterade kurser i Lund och Helsingborg. Arbetar aktivt med kursutveckling.



Special Applications of Network Analysers

Prior knowledge of network analysers is assumed

- Measurements of linear and non-linear
- Parameters of amplifiers and mixers and filters
- Measurements in time domain
- Modern two-port calibration procedures and their applications

DATE & LOCATION:	On request, please contact Nordic Training Center for more info.
DURATION:	2 days
TRAINER:	Albert Gleißner
LANGUAGE:	English

Grundkurs i Intermodulationsmätningar

- Definitioner av intermodulation (IM)
- Matematisk bakgrund
- Källor där intermodulation uppstår
- Varför kontrollera IM?
- Vad störs IM av?
- Var bildas IM?
- Passiv intermodulation
- Mätmetoder – Signalnivåer
 - Signal/Brus – Bandbredder – Sveptider
 - Frekvensnoggrannhet/Stabilitet
- 2-portsmätning (framriktningen)
- 1-portsmätning (reflekterad)
- Systemlösningar
- Mätutrustning

DATUM & PLATS:	13 februari, Stockholm
OMFATTNING:	1 dag
KURSAVGIFT:	4 200 SEK/pers
KURSLÄDARE:	Göran Jönsson
SPRÅK:	Svenska
SISTA ANMÄLNINGSDAG:	30 januari



ALBERT GLEIßNER Dr of Physics

Mr. Gleißner studied and finished his dissertation at the "Technical University" in Munich. He was involved for 4 years in the design and marketing of general electronic data acquisition and measurement systems. Working for R&S since 1997, he specialised in network analysis and joined the product management group for the ZVx instrument family. Main tasks are internal and external trainings as well as technical support, market analysis and definition of specifications.

Antennteknik

- Inledning med historiskt perspektiv
- Strålning – hur uppstår den?
- Högfrekvens- och lågfrekvensapproximationer: (Optik, GO/UTD, Kvasioptik, Vågteori, Kretsteori)
- Källor för strålning och introduktion till Maxwells ekvationer
- Närfält – Fjärrfält
- Viktiga parametrar (m.a. polarisation/kors-polarisation)
- Antennen som systemkomponent
- Några viktiga antenntyper
- Kort om nyare utvecklingstrender (miniatyrisering, signalprocesserande antenner)
- Kort om moderna beräkningsmetoder
- Antennmätningar
- Viss grundläggande matematisk beskrivning ingår

DATUM OCH PLATS:	8-9 april, Stockholm
OMFATTNING:	2 dagar
KURSAVGIFT:	7 800 SEK/pers
KURSLÄDARE:	Arild Moldsvor
SPRÅK:	Svenska
SISTA ANMÄLNINGSDAG:	25 mars

Wireless LAN Systems of the Next Generation

- Overview over HiperLAN2
- Application examples of future Wireless LAN
- System and protocol architecture
- PHY layer of 5 GHz WLANs: OFDM, Coding and Mapping
- DLC layer of HiperLAN2: Structure of MAC frames, dynamic resource management
- Comparison HiperLAN2, IEEE 802,11a and MMAC-HiSWANa

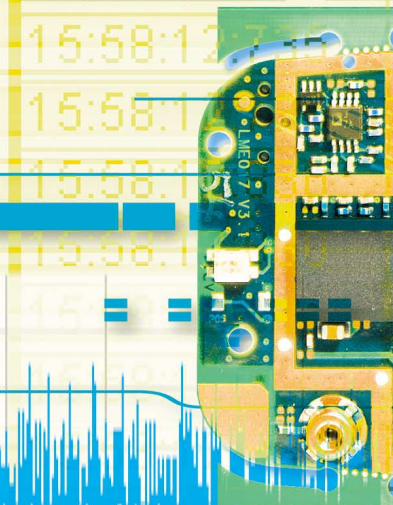
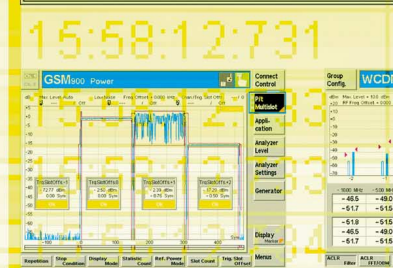
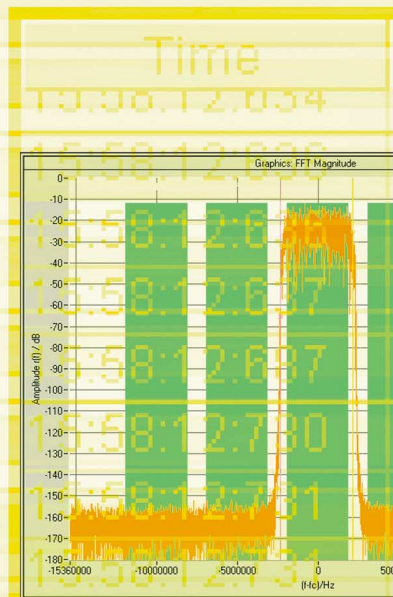
DATE & LOCATION	
OCCASION 1:	March 31, Aalborg
OCCASION 2:	April 1, Stockholm
DURATION:	1 day
COURSE-FEE:	4 200 SEK/pers, 3 700 DKK/pers
TRAINER:	Holger Stahl
LANGUAGE:	English
LAST DATE FOR REGISTRATIONS	
OCCASION 1:	March 14
OCCASION 2:	March 14



ARILD MOLDSVOR Doktorende i Trondheim 1990, på beräkningsmetoder för reflektorantennar. 1990-1994 Chalmers i Göteborg (karaktisering av hårda och mjuka ytor och beräkningsmetoder för antenner). Olika doktorandkurser. Ansvarig för grundkursen i mikrovågsantennar. Från 1994 Karlstads universitet. Konsultuppdrag för industrin.



HOLGER STAHL Prof. Dr.-Ing. Studied Electrical Engineering and Information Technology at the Munich University of Technology. He obtained his doctorate on speech understanding using statistical methods. From 1997 to 2000, he worked for R & S Munich, developing protocol testers for mobile communication. In the end of 2000, Dr. Stahl was appointed to a professorship at the University of Applied Sciences in Rosenheim (South Germany). His main areas of responsibility are Data Communication and Communication Systems.



Protocols Layer 2/3 UMTS

Layer 2 / Layer 3 protocol instances:

- MAC: Medium Access controller
- RLC: Radio Link controller
- RRC: Radio Resource Controller
- Data flow (Logical / Transport / Physical Channel Mapping)
- Radio Resource Management
- UE/UTRAN measurements

DATE & LOCATION:	On request, please contact Nordic Training Center for more info.
DURATION:	2 days
TRAINER:	Uwe Bäder
LANGUAGE:	English

GPRS – General Packet Radio Services

- New features of the GSM phase 2+
- Services and functions of GPRS, comparison between GPRS phase 1 and phase 2
- GPRS Services
- Tasks of a Mobile Station in the GPRS network
- Expanded GSM network structure for introduction of GPRS
- Functions in GPRS
- Protocol layer in GPRS: Transmission Planes and Signalling Planes
- GPRS Radio Interface
- Future development, EGPRS overview
- New measurement principles in GPRS

DATE & LOCATION

OCCASION 1:	March 24-25, Stockholm
OCCASION 2:	March 26-27, Aalborg
DURATION:	2 days
COURSE-FEE:	7 800 SEK/pers, 6 600 DKK/pers
TRAINER:	Reiner Stuhlfauth
LANGUAGE:	English
LAST DATE FOR REGISTRATIONS	
OCCASION 1:	March 7
OCCASION 2:	March 7



UWE BÄDER Dipl. Phys. Mr. Bäder has been working for R&S since August 2000 in the advanced R&D group of the mobile radio test set division. He is R&S delegate at the 3GPP (3rd Generation Partnership Program), the standardisation organisation for the Universal Mobile Telecommunications System (UMTS). He attends the working group 1 (radio layer 1) and working group 2 (radio layer 2 and 3) of the RAN (Radio Access Network) technical specification group.



REINER STUHLFAUTH From Ludwigshafen/Rhein, Germany. 1988-1996 University of Kaiserslautern: Studies of Electrical Engineering. Speciality Telecommunications. 1996-1999 Work with Mannesmann Mobilfunk. GSM-Network Operator, Leader in Germany. Has been with Rohde & Schwarz since 1999 in the field of mobile communication.

Basics of Bluetooth – a new technology for wireless communication

- Introduction of mobile/wireless communications
- Applications for Bluetooth technology
- Bluetooth system architecture
- Transmission via air interface
- Multiplex methods (CDMA, TDMA, FDMA)
- Channel and packet definitions
- Connection oriented (SCO)/connectionless (ALC) services
- Coding schemes
- Synchronization
- Protocol structure
- Signalling procedures
- Security functions
- Ad hoc short-range networks
- Comparison with other wireless communication systems

DATE & LOCATION:	April 10, Stockholm
DURATION:	1 day
COURSE-FEE:	4 200 SEK/pers
TRAINER:	Anja Geerkens
LANGUAGE:	English
LAST DATE FOR REGISTRATIONS:	March 25

omarbetat kurs!

3G - Introduction to UMTS Air Interface (FDD)

- Overview of evolution toward 3rd generation mobile communications
- Comparison of access schemes FDMA/TDMA/CDMA
- Introduction into spread spectrum technology
- Features and Architecture of Code Channels
- Air Interface Architecture of UMTS
- Physical, Transport and Logical Channels
- Cell Selection and Synchronisation
- CDMA receiver principle: RAKE receiver
- Transmit Power Control
Hard, soft and other handover

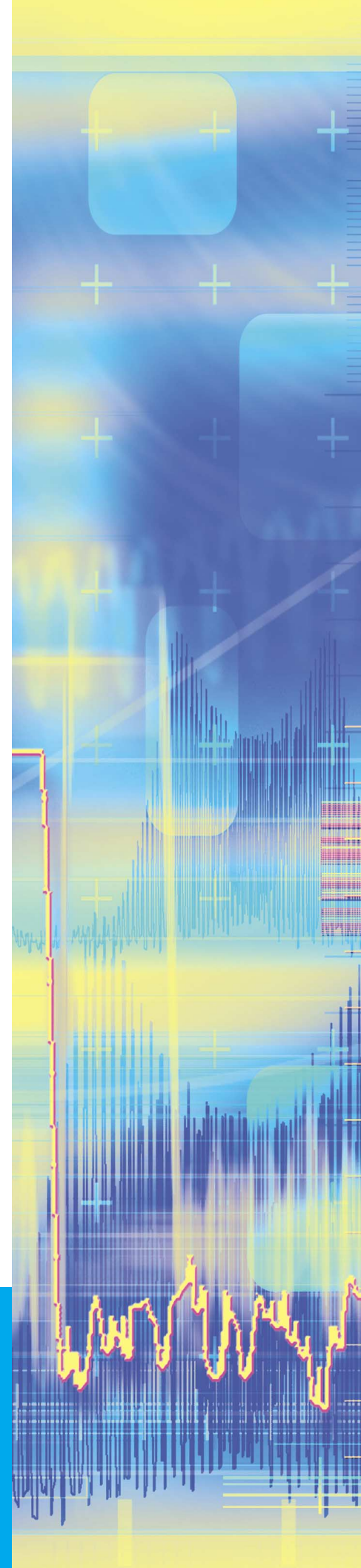
DATE & LOCATION:	March 17-18, Stockholm
DURATION:	2 days
COURSE-FEE:	7 800 SEK/pers
TRAINER:	Reinhold Krüger
LANGUAGE:	English
LAST DATE FOR REGISTRATIONS:	February 26



ANJA GEERKENS Dr. rer. nat. (physicist) Mrs Geerkens works since 1998 for TECHCOM Consulting giving trainings on mobile communication systems (GSM, GPRS, UMTS). She works in the Rohde & Schwarz Bluetooth Project since 1999. Started with Bluetooth system overview courses she now also gives PTW60 protocol tester trainings. She also writes the material for the PTW60 courses and the operation manuals for the PTW60, TS8960/TS8965 (radio frequency tester for Bluetooth).



REINHOLD KRÜGER Dipl. Ing. Has been with Rohde & Schwarz since 1988. Responsible for trainings on mobile communication systems. Started with systems of first generation (NMT, TACS) continued with second generation GSM and now offers seminars on CDMA and 3rd generation systems. Enables the spectators an more intuitive approach to even difficult seminar objects.



Spectral and baseband analysis of digitally modulated carriers

- Analysis of digitally modulated carriers
- Representation of RF signals in the complex baseband
- Analysis in the Time Domain
- Definition of the modulation parameters
- Typical errors inherent to modulation types and their measurement
- Measurements according to different RF communication services standards
- Analysis of GSM signals
- Generation and analysis of EDGE-signals
- Analysis of WCDMA-signals
- Measurements in the code domain of 3GPP signals

DATE & LOCATION:	April 28-29, Aalborg or on request
DURATION:	2 days
COURSE-FEE:	6 600 DKK/pers
TRAINER:	Peter Hatzold
LANGUAGE:	English
LAST DATE FOR REGISTRATIONS:	March 24

Grundkurs i fiberoptisk kommunikation och mätteknik

- Grundläggande optisk fysik och definitioner
- Principen för fiberoptisk transmission
- Applikationer inom data- och telekommunikation
- Standarder
- Komponenter i överföringslänken
- Felkällor och begränsningar i överföringslänken
- Metoder och instrument för att mäta optiska prestanda på komponenter och överföringslänken
- Relaterade mätningar på det elektriska interfacet
- Den senaste forskningen inom fiberoptisk kommunikation
- Praktiska laborationer

DATUM & PLATS:	Kontakta Nordic Training Center för mer information
OMFATTNING:	2 dagar
SPRÅK:	Svenska

Basics of Audio measurement

- Audio Measurements and Psychoacoustics
- Basics of Audio Measurements (Linear Distortion, Nonlinear Distortion, Noise Measurements)
- Basics of Digital Audio (Sampling, Aliasing, Quantisation, Dither)
- Typical Measurements on Digital Components
- Basics of FFT Analysis
- Digital Data Transmission and Protocol Data
- Digital Interface Tests/Jitter Measurements
- Practical exercises

DATE & LOCATION:	On request, please contact Nordic Training Center for more info.
DURATION:	2 days
TRAINER:	Klaus Schiffner
LANGUAGE:	English



PETER HATZOLD Diplom Ingenieur 1970. Has been with Rohde & Schwarz since 1978. Member of a group concerned with technical education of customers and sales engineers. His responsibility is in the field of digital modulation and signal analysis of RF signals.



KLAUS SCHIFFNER Dipl.-Ing. (FH) Mr. Schiffner works for Rohde & Schwarz since 1988. As a product manager he is responsible for the worldwide marketing of voltage/power meters and the audio analyzers. His special topic is audio analysis, where he has great experience in giving trainings and seminars.

MPEG2 Transport-Stream Syntax and Elementary-Stream Encoding

- Structure of the MPEG2 transport stream
- Transport-stream header and elementary-stream header
- MPEG2 tables
- Service Information
- Video encoding
- Picture quality measurement
- Audio encoding

DATE & LOCATION:	May 20-21, Stockholm
DURATION:	2 days
COURSE-FEE:	7 800 SEK/pers
TRAINER:	Walter Fischer
LANGUAGE:	English
LAST DATE:	April 29

Digital Terrestrial Television – DVB-T in Theory and in Practice

Prior MPEG knowledge is assumed

- Basics of DVB-T
- OFDM
- Characteristics of terrestrial radio channels
- Fading
- Characteristics of DVB-T
- Operating principle of a DVB-T modulator
- Operating principle of a DVB-T receiver
- Measurements on a DVB-T transmission path
- Numerous practical exercises and demonstrations

Please contact
Nordic Training
Center if you would
like to receive infor-
mation about DVB-S
and DVB-C.

DATE & LOCATION:	May 22-23, Stockholm
DURATION:	2 days
COURSE-FEE:	7 800 SEK/pers
TRAINER:	Walter Fischer
LANGUAGE:	English
LAST DATE:	April 29

EMC Measurement Software EMC32 (EMI and EMS)

Operation training for ES/EMS-K1- experienced users

- 1st day (fundamentals and EMI)
- Software structure, hardware requirements
 - Installation, support, product philosophy, development in the future
 - Generation of software setups to CISPR 16 (conducted and radiated)
 - Examples for characteristic test sequences
- 2nd day (EMS)
- Generation of software setups to IEC 61004-4-6/-3 (conducted and radiated)
 - Typical measurement examples
 - EUT monitoring
 - Calibration and configuration

DATE & LOCATION:	March 26-27, Stockholm
DURATION:	2 days
COURSE-FEE:	7 800 SEK/pers
TRAINER:	Alfred Schmid
LANGUAGE:	English
LAST DATE:	March 10



WALTER FISCHER Dipl. Ing. (FH). Has been working at Rohde & Schwarz since 1985. 14 years in the development department TV test and measurement (video analyzers, TV test receiver). Has been at the training department since 1999, responsible for TV test and measurement seminars, main focus are DVB seminars.



ALFRED SCHMID Dipl. Ing. Is working at Rohde & Schwarz since 1986 as a member of the training center for sales engineers and customers. He is specialized on test receiver applications, especially EMI testing and related topics.