

**DEPARTMENT OF RADIO AND ELECTRONICS**

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**Head of Department**

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**I. STAFF**

Professors	professor emeritus Ing. Igor Baláž, DrSc., professor emeritus Ing. Florián Makáň, PhD.
Associate Professors	Doc. Ing. Peter Hajach, PhD., Doc. Ing. Ján Hribík, PhD., Doc. Ing. Vladimír Kudják, PhD., Doc. Ing. Peter Kulla, PhD., Doc. Ing. Oldřich Ondráček, PhD., Doc. Ing. Peter Podhoranský, PhD.
Assistant Professors	Ing. Zdenko Brezovič, PhD., Ing. Elena Cocherová, PhD., Ing. Miroslav Hagara, Ing. Zuzana Krajčušková, PhD., Ing. Peter Kubinec, PhD., Ing. Marek Kukučka, PhD., Ing. Branislav Lojko, PhD., Ing. Marián Minárik, PhD., Ing. Jozef Petrek, PhD., Ing. Anna Přibilová, PhD., Ing. Jozef Púčík, PhD., Ing. Vladimír Štofánik, PhD.
Research Workers	Doc. Ing. Peter Fuchs, PhD., Ing. Ján Bezek, PhD. Ing. Vladimír Bilík, PhD.,
Technical Staff	Bohumil Frey, Ivana Prokopová, Gabriela Vránová (secretary) Edita Boďová
PhD. Students	Ing. Martin Boriš, Ing. Marek Černý, Ing. Filip Krajčovič, Ing. Peter Kupec, Ing. Peter Olšovský, Ing. Abdullah Sultan Ing. Ľuboš Staňák

**II. EQUIPMENT**

**II.1 Teaching and Research Laboratories**

- Laboratory of Analog Circuits and Systems and Navigation
- Research Laboratory of Wireless Communication and Navigation
- Laboratory of RF Circuits and Systems
- Laboratory of Microwave Fundamentals
- Laboratory of Microwave Measurements
- Laboratory of Microwave Applications
- Laboratory of Antennas and Wave Propagation
- Laboratory of Radio Communication Technology
- Echoic Acoustical Chamber (subterrain)
- Laboratory of Power Radio Electronics
- Laboratory of Electroacoustics
- Laboratory of Analog and Digital Television
- Laboratory of Audio Engineering
- Laboratory of Signal Processors and Microcontrollers
- Laboratory of Digital Circuits
- Research Laboratory of Audio and Video Technologies
- Laboratory of Medical Electronics Instrumentation

- Research Laboratory of Electronic Power Measurement
- Research Laboratory of Signal Processors and Microcontrollers Applications
- Laboratory of Signal Processing
- Laboratory of Electronic Devices and Circuits
- Laboratory of Electronic Measurement
- Laboratory ESF - EDUCTV
- Laboratory of PhD. Graduates and Students
- Research Laboratory in Medical Engineering

## II.2 Special Measuring Instruments and Measuring Systems

- Six-Port Reflectometers and Automatic Impedance Matching System for High-Power Industrial Applications
- European Customer Training Centre – Texas Instruments (DSP TMS320C2xx, TMS370, TMS320C5x, TMS320C6xxx, MSP430)
- Precise Registration / Calibration Electricity Meter
- Precise Digital Network Analyzer and Standard Meter PEM 6711

## III. TEACHING

### III.1 Undergraduate Study (Bc.)

Subject, semester, hours per week for lectures and for seminars or practical exercises, name of the lecturer.

Electronic Devices and Circuits	(3rd, 4th sem., 3-2h)	V. Kudják
Signals and Systems	(4th sem., 3-2h)	O. Ondráček
Analog Circuits	(5th, sem., 3-2h)	V. Štofánik
Microwave Engineering	(5th, sem., 3-2h)	P. Hajach
Wireless Communications Technology	(5th sem., 2-2h)	P. Podhoranský
Electronic Circuits	(5th sem., 3-2h)	J. Hribík
Bachelor Project I	(5th, sem., 0-4h)	O. Ondráček
Digital and Pulse Circuits	(6th sem., 3-2h)	P. Kulla
Microwave Engineering and Radio Communications	(6th, sem., 3-2h)	P. Hajach, P. Podhoranský
Microcontrollers	(6th sem., 2-2h)	P. Fuchs
Bachelor Project II	(6th sem., 0-8h)	O. Ondráček

### III.2 Graduate Study (Ing.)

Digital Signal Processing	(1st sem., 3-2h)	O. Ondráček
Microcontrollers	(1st sem., 2-2h)	P. Fuchs
Circuits of Radio Communication Systems	(1st sem., 3-2 h)	V. Kudják
Sensors, Circuits and Devices of Medical Electronics	(1st sem., 3-2h)	M. Kukučka
Radio Communication	(2nd sem., 3-2h)	J. Petrek
Digital Signal Processors	(2nd sem., 3-2h)	P. Fuchs
Analysis of Biosignals and Systems	(2nd sem., 3-2h)	J. Půčik
Radionavigation Systems	(2nd sem., 3-2h)	M. Minárik
Antennas and Radio Communications Link Design	(2nd sem., 3-2h)	P. Hajach
Signal Recording	(2nd sem., 3-2h)	P. Podhoranský
Audio Engineering	(2nd sem., 3-2h)	A. Přibilová
Telemedicine Techniques	(2nd sem., 3-2h)	M. Kukučka, Z. Krajčůšková
Diploma Project I	(1st, 2nd sem., 0-6h)	V. Kudják,

Diploma Project II	(2nd, 3rd sem., 0-6h)	O. Ondráček V. Kudják, O. Ondráček
Diagnostic in Medicine	(3rd sem., 3-2h)	M. Kukučka, J. Púčik
Sound Technology	(3rd sem., 3-2h)	A. Přibilová
Influence of Electromagnetic Radiation on Biological Objects	(3rd sem., 3-2h)	E. Cocherová
Radio Communication Technique	(3rd sem., 3-2h)	J. Petrek
Analog and Digital Television	(3rd sem., 3-2h)	P. Kulla
Team Project	(3rd sem., 0-8h)	V. Kudják, O. Ondráček
Diploma Project III	(3rd, 4th sem., 0-6h)	V. Kudják, O. Ondráček

### III.3 Undergraduate and Graduate Study for Foreign Students (in English Language)

Analog Circuits	V. Štofanič
Bachelor Project I	O. Ondráček
Microwave Engineering	P. Hajach
Wireless Communications Technology	P. Podhoranský
Sensors, Circuits and Devices of Medical Electronics	M. Kukučka

## IV. RESEARCH PROJECTS

- Audio-Visual Representation of Emotional States. COST 2102/STU/08 (A. Přibilová)
- Scanning Capacitance Transient Microscope for Semiconductor Analysis on the Nanoscale. VEGA No. 2/0107/08 (J. Hribik)
- Portable AC Current and Voltage Source for Electronic Electricity Meters Testing (J. Hribik, M. Hruškovíc)
- Modern Methods of Digital Signal Processing in Radio Electronics, Biomedicine, Electronic Measurement, Multimedia and Vehicular Technology, AV-4/0012/07 (P. Fuchs)
- AMR and PLC Communication (P. Podhoranský)
- Digital Processing of Biomedical Signals (E. Cocherová)
- Digital 3-Phase Calibration Electricity Meter with DSP TMS320C6711 (P. Fuchs)
- Single Phase Electricity Meter with Micro-Controller MSP430FE427 (P. Fuchs)
- Electronic Calibration Station EKS 05-3 (P. Fuchs)
- Digital Frequency Locked Loop with High Spectral Purity (P. Fuchs, B. Lojko)
- Control Application Based on GSM, GPS and USB Technology (P. Fuchs, B. Lojko)
- Digital Calibration and Registration Electricity Meter (P. Fuchs, J. Hribik)

#### Collaboration:

- Digital Calibration/Registration Electricity Meter (Křížik GBI jsc, Prešov)
- Electronic Calibration Station EKS-03 (Applied Meters jsc, Prešov)
- Portable AC Current and Voltage Source for Electronic Electricity Meters Testing (Applied Meters, Inc., Prešov)
- Scanning Capacitance Transient Microscope for Semiconductor Analysis on the Nanoscale (Slovak Academy of Sciences, Bratislava)

## V. COOPERATION

### V.1 Cooperation in Slovakia

- Academy of Music and Dramatic Arts, Film and Television Faculty
- Applied Meters, Inc., Prešov

- ANDIS Ltd. Bratislava
- AMSET Ltd., Bratislava
- ComErgon Ltd., Bratislava
- HIS SENZOR Ltd., Prešov
- Institute of Physics, Slovak Academy of Sciences, Bratislava
- Institute of Measurement, Slovak Academy of Sciences, Bratislava
- Institute of Molecular Physiology and Genetics, Slovak Academy of Sciences, Bratislava
- Institute of Metrology Bratislava
- Main Data, Bratislava
- Mediatech, Bratislava
- National Security Institute, Bratislava
- PHILIPS Slovakia, Bratislava
- Prof. Dérer Faculty Hospital, Bratislava
- RACOM, Slovakia
- SATRO Ltd., Bratislava
- Slovak Broadcasting Corporation, Bratislava
- Slovak Institute of Technical Normalization, Bratislava
- Slovak Television, Bratislava
- MIRONIX Bratislava
- Special Software and Systems, Bratislava
- Telecommunication Office SR, Bratislava
- T-Mobile
- University of Technology, Košice
- University of Technology, Žilina
- VÚS, Banská Bystrica
- ZPA Krížik GBI jsc, Prešov

## V.2 International Cooperation

- Agilent Technologies, Inc., Santa Clara, CA, USA
- AS Crystal, Hradec Králové, CzR
- Institut für Allgemeine Physik, TU Vienna, Austria
- Ilmenau University of Technology, Germany
- Laboratory for Biomedical Informatics, Delft, the Netherlands
- MtronPTI, Orlando, FL, USA
- Nofech Electronics Ltd., Jerusalem, Israel
- PHILIPS, Components Center Vienna, Austria
- SAMSUNG Electronics, Co. Ltd.
- Technical University Brno, CzR
- Texas Instruments, Inc, USA
- URE AV CzR, CzR
- URSI Prague, CzR
- TR Instruments Ltd., Brno, CzR
- Xidian University, Xidian, China.

## V.3 Membership in International Organizations and Societies

- URSI, Union Radio-Scientifique Internationale, Member of NC (I. Baláž)
- IEEE, The Institute of Electrical and Electronics Engineers, Member (I. Baláž)
- IEEE, The Institute of Electrical and Electronics Engineers, Member (E. Cocherová)
- IFMBE, the International Federation for Medical and Biological Engineering (E. Cocherová)
- Czech and Slovak Radioengineering Society, Member (E. Cocherová)
- Radioengineering, Proceedings of Czech and Slovak Technical Universities and URSI Committees, Members of Editorial Board, IEEE (Z. Krajčušková)
- URSI, Scientific Secretary (Z. Krajčušková)
- Czech and Slovak Radioengineering Society, Member (Z. Krajčušková)

- Radioengineering, Proceedings of Czech and Slovak Technical Universities and URSI Committees, Member of Editorial Board (Z. Krajčušková)
- IFMBE, the International Federation for Medical and Biological Engineering (Z. Krajčušková)
- IFMBE, the International Federation for Medical and Biological Engineering (M. Kukučka)
- IEEE, The Institute of Electrical and Electronic Engineers, Member (V. Kudják)
- IET, The Institution of Engineering and Technology, Fellow (P. Kulla)
- IFMBE, the International Federation for Medical and Biological Engineering (O. Ondráček)
- IFMBE, the International Federation for Medical and Biological Engineering (J. Púčik)
- Audio Engineering Society (AES), Member, Contact person of the AES Slovak Section (A. Přibilová)
- COST Action 2102 - Cross-Modal Analysis of Verbal and Non-verbal (A. Přibilová) Communication, Member of the Management Committee
- URSI, Union Radio-Scientifique Internationale, Member (V. Štofanič)
- IEEE, The Institute of Electrical and Electronic Engineers, Member (V. Štofanič)
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Member (V. Štofanič)
- IEEE Communications Society, Member (V. Štofanič)

#### V.4 Membership in Slovak Organizations and Societies

- SBIMI, Society for Biomedical Engineering and Medical Informatics, Member of Committee (E. Cocherová)
- SKBS, Slovak Biophysical Society, Member (E. Cocherová)
- Scientific Committee for PhD Study in Electronics, Member (J. Hribik)
- SBIMI SLS, Society for Biomedical Engineering and Medical Informatics, Scientific Secretary of the Section of Medical Informatics, Member of Committee (Z. Krajčušková)
- Association of Alumni and Friends University, Member of Bureau (Z. Krajčušková)
- SBIMI SLS, Society for Biomedical Engineering and Medical Informatics, Scientific Secretary of SBIMI SLS, Member of Committee (M. Kukučka)
- SBIMI, Society for Biomedical Engineering and Medical Informatics, Member (O. Ondráček)
- SBIMI, Society for Biomedical Engineering and Medical Informatics, Member (J. Púčik)

## **VI. THESES**

### **VI.1 Masters Theses**

Masters theses supervised at the Department of Radio and Electronics. The names of supervisors are in brackets.

- [1] Béder, M.: Microstrip Antenna with Symmetrical Radiation (P. Hajach)
- [2] Bielik, M.: High-dynamic-range Bioelectric Signal Acquisition (J. Púčik)
- [3] Bezděk, M.: Contactless Identification Systems RFID for LF and UHF Radio Frequency Band (B. Lojko)
- [4] Čanaky, L.: Universal Hardware Development Kit Based on the Single-chip Microprocessor PIC24FJ256 (V. Štofanič)
- [5] Dávid, S.: Current Source Controlled by Microcontroller (J. Hribik)
- [6] Debnár, T.: Brain-Computer Interface (E. Cocherová)
- [7] Dolezsa, L.: Proposal of Visual Tracing Depiction of CD Optical System (P. Podhoranský)
- [8] Dorkovič, P.: Human Stabilometry with Visual Stimulation (J. Púčik)
- [9] Ďurčo, T.: Time-frequency Analysis of Heart Rate Variability (J. Púčik)
- [10] Fehér, J.: The Use of Matlab Software Environment for Vector Signal Generator Programming (P. Podhoranský)
- [11] Gablovský, J.: Analysis of RFID Antenna Properties
- [12] Gábor, T.: Utilisation of MATLAB Software to Radio Channels Properties Simulation (P. Podhoranský)

- [13] Gogola: Control Unit of System for Measurement of Temperature Dependence of Magnetic Susceptibility (V. Jančárik)
- [14] Govorčín, I.: Digital Single-Phase, Three-Phase Meter with MSP430 (P. Fuchs)
- [15] Grejták, F.: DRM Receivers – State of the Art and their Technical Parameters Comparison (V. Kudják)
- [16] Greksa, Š.: Measurement Stand for Low Frequency Transistor Noise Measurement - Design and Realization (Z. Brezovič)
- [17] Horváth, J.: Experimental Digital Radio System DRM – new Perspective on AM Bands (V. Kudják)
- [18] M.Hoťka, M.: Measurement of Impedance of Cardiac Myocytes (E. Cocherová)
- [19] Igaz, D.: Model of Photonic Sensor for Glucose Level Monitoring (F. Uherek)
- [20] Jakubík, T.: Programmable Synthesizer (P. Podhoranský)
- [21] Koša, M.: Sound Analysis and Synthesis (A. Přibilová)
- [22] Kovačič, P.: Design of Development System of GPS Receiver (V. Jančárik)
- [23] Križan, M.: DDS Generator of the Sinus, Square and Triangle Waveform for Measure and Test Purposes (Z. Brezovič)
- [24] Lovász, M.: Wireless Channel Simulators Properties Comparison
- [25] Miklošík, P.: Rectangular Slot Antenna (P. Podhoranský)
- [26] Olšovský, P.: Comparison of UMTS-HSDPA and WiMAX Networks from the Point of View of Bitrate and Mobility (J. Petrek)
- [27] Ondík, V.: Three Phase Electric Meter PEM6711 (P. Fuchs)
- [28] Ondreiov, M., I.: Experimental Impedance Chart Meter of Skin (M. Kukučka)
- [29] Oršula, V.: An Advertisement Spots Detection in TV Broadcasting (P.Kubinec)
- [30] Slama, M.: Sound Effect Chorus Based on DSP (P. Kubinec)
- [31] Vanko, M.: Subpixel Edge Detection in 1D Images (M. Hagara)
- [32] Zvalo, A.: Emotion Recognition from Video Using Facial Expressions (M. Hagara)

## **VI.2 PhD Theses**

- [1] Kubinec, P.: Digital Reverberators (O. Ondráček)
- [2] Lojko, B.: Contribution to Phase Noise Modeling of Voltage Controlled Oscillators in Digital Frequency Locked Loops (P. Fuchs)

## **VII. OTHER ACTIVITIES**

- Small Testing Equipment for Meters Checking STE (PPS 111). Conference and Exhibition ELO SYS 2010, 5 – 8 October, 2010, Trenčín, Slovakia. In the stand of the participant: Applied Meters, Inc., Prešov – Osaki Electric Co. Ltd., Japan (P. Fuchs, M. Hruškovic, J. Hribik)
- Organizing of the 33rd International Meeting of Institutes of Radio and Electronics, Velky Meder, May, 4 - 6 May 2010

## **VIII. PUBLICATIONS**

### **VIII.1 Journals**

- [1] BILÍK, V. - BEZEK, J.: High Power Limits of Waveguide Stub Tuners. In: Journal of Microwave Power and Electromagnetic Energy. - Vol. 44, No. 4 (2010), p. 178-186. (in English)
- [2] COCHEROVÁ, E. - KUPEC, P. - PATSCH, M. - JENDRUCH, M. - ŠTOFANIK, V.: Modeling of RF Radiation Absorption in Human Body. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, Special Issue (2010), p. 160-164. (in Slovak)
- [3] ČERNÝ, M. - LOJKO, B. - PODHORANSKÝ, P. - FUCHS, P.: Application of MSP 430 Microcontrollers in Intelligent Electricity Meters. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, Special Issue (2010), p. 58-62. (in Slovak)

- [4] HAGARA, M. - KULLA, P.: Edge Detection in Digital Images. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, Special Issue (2010), p. 71-75. (in Slovak)
- [5] HAGARA, M. - KULLA, P.: Slow Motion Detection Based on Edge Shift. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, Special Issue (2010), p. 67-70. (in English)
- [6] KOLENIČ, F. - KOVÁČ, L. - SEKERKA, R. - BORIŠ, M. - KUNŠTEK, D.: Circuit Solution of Generating an Electron Beam with 30 kW Power. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, Special Issue (2010), p. 222-225. (in Slovak)
- [7] KRAJČUŠKOVÁ, Z.: We said farewell to Dr. h. c. prof. Ing. Ján Chmúrny, DrSc. In: Spektrum. - ISSN 1336-2593. - Vol. 16, č. 6 (2010), p. 14. (in English)
- [8] KUPEC, P. - HAJACH, P. - COCHEROVÁ, E. - PÚČIK, J. - GONŠOROVÁ, M.: Radio-Frequency Field Absorption in the Model of Human Head. In: Lékař a technika. - ISSN 0301-5491. - Vol. 40, No. 2 (2010), p. 25-28. (in English)
- [9] LAVOR, T. - PETREK, J.: GSM Network Design and Capacity Dimensioning. In: Posterus.sk. - ISSN 1338-0087. - April (2010), <http://www.posterus.sk/?p=7111>. (in Slovak)
- [10] PATSCH, M.: Circularly Polarized Single Feed Microstrip Antennas. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, Special Issue (2010), p. 98-101. (in English)
- [11] PŘIBIL, J. - PŘIBILOVÁ, A.: An Experiment with Evaluation of Emotional Speech Conversion by Spectrograms. In: Measurement Science Review. - ISSN 1335-8871. - Vol. 10, No. 3 (2010), p. 72-77. (in English)
- [12] PÚČIK, J. - ONDRÁČEK, O. - GAŠPARÍK, I. - JENDRUCH, M. - SULTAN, A.M.: Biomedical Digital Signal Processing – a Way to Uncover Information. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 16, Special Issue (2010), p. 171-175. (in Slovak)
- [13] VLK, L. - KULLA, P.: 2D Images Filtration in Quasi Real Time within System with Frame Grabber KAPA LAB and Platform Borland C++ Builder. In: Posterus.sk. - ISSN 1338-0087. - May (2010), <http://www.posterus.sk/?m=201005>. (in Slovak)

## VIII.2 Conference Proceedings

- [1] BALÁŽ, I. - PICHNA, M. - ŠTOFANIK, V. - MINÁRIK, M. - COCHEROVÁ, E.: Nominal-Phase Feedback Circuits in Oscillators. In: Radioelektronika 2010. - Brno: VUT, 2010. - ISBN 978-1-4244-6319-0. - p. 209-211. (in English)
- [2] BEŇADIK, V. - BREZOVIČ, Z.: Development and Design of Periphery Module for Evolutional Board with Microcontroller Atmel. In: ŠVOČ 2010: Proceedings of Selected Works. - Bratislava: FEI STU, 2010. - ISBN 978-80-227-3286-4. - CD-Rom. (in Slovak)
- [3] BILÍK, V. - KRAJČOVIČ, F.: Tuning Element of High Power 2.45-GHz Coaxial Impedance Transformer. In: Radioelektronika 2010. - Brno: VUT, 2010. - ISBN 978-1-4244-6319-0. - p. 69-72. (in English)

- [4] BORIŠ, M. - KUNŠTEK, D. - KOLENIČ, F. - SEKERKA, R. - KOVÁČ, Ľ.: The Concept of a New Generation of Electron Beam Welding Equipment with Power up to 30kW. In: Welding Technology 2010 – Technology of Industry Development in European Union: Scientific Seminar within the Scope of “The Week of Science and Technology in Slovakia 2010”. Bratislava, Slovak Republic, 9.11.2010. - Trnava: AlumniPress, 2010. - ISBN 978-80-8096-130-5. - p. 1-8. (in Slovak)
- [5] BREZOVIČ, Z. - KUDJÁK, V.: Active RC Notch for Phase-Locked Loop. In: Radioelektronika 2010. - Brno: VUT, 2010. - ISBN 978-1-4244-6319-0. - p. 225-228. (in English)
- [6] BÚRY, J. - BREZOVIČ, Z.: Design and Control of Stepper Drive. In: ŠVOČ 2010: Proceedings of Selected Works. - Bratislava: FEI STU, 2010. - ISBN 978-80-227-3286-4. - CD-Rom. (in Slovak)
- [7] ČERNÝ, M. - KRAJČOVIČ, F. - LOJKO, B. - PODHORANSKÝ, P. - FUCHS, P.: Experimental Verification of Influence of HF Amplifiers Parameters in Digital Communication Systems. In: New Trends in Signal Processing. 10th International Scientific Conference. Tatranské Zruby, Slovak Republic, 26.-28.5.2010 - Liptovský Mikuláš: Armed Forces Academy, 2010. - ISBN 978-80-8040-399-7. - CD-Rom. (in Slovak)
- [8] HRIBIK, J. - NOVÁK, P. - FUCHS, P.: Low-Frequency Digital Phase Meter. In: IMEKO Symposium TC-4, TC-19 & IWADC Instrumentation for the ICT Era: Košice, Slovakia, 8.- 10. 9.2010. - Košice: Technical University, 2010. - ISBN 978-80-553-0424-3. - CD-Rom. (in English)
- [9] HRIBIK, J. - HRUŠKOVIC, M. - FUCHS, P.: Portable AC Current and Voltage Source. In: New Trends in Signal Processing. 10th International Scientific Conference. Tatranské Zruby, Slovak Republic, 26.-28.5.2010. - Liptovský Mikuláš: Armed Forces Academy, 2010. - ISBN 978-80-8040-399-7. - p. 81-86. (in English)
- [10] HRIBIK, J. - HRUŠKOVIC, M. - FUCHS, P.: Portable AC Current and Voltage Source for Electricity Meters Testing. In: Power Engineering 2010. Control of Power Systems: 9th International Scientific Conference. Tatranské Matliare, Slovak Republic, 18.-20.5. 2010. - Bratislava: STU, 2010. - ISBN 978-80-89402-25-0, CD-Rom. (in English)
- [11] KRAJČUŠKOVÁ, Z. - KUKUČKA, M.: Master (Ing.) Programme Radioelectronics - Selective Block Biomedical Electronics at the Department of Radio and Electronics of Slovak University of Technology in Bratislava. In: Telecommunications and Signal Processing TSP-2010: 33rd International Conference on Telecommunications and Signal Processing. Baden near Vienna, Austria, 17.-20.8.2010. - Budapest: Asszisztencia Szervező Kft., 2010. - ISBN 978-963-88981-0-4. - CD-Rom. (in English)
- [12] KRAJČUŠKOVÁ, Z.: New Unconventional Reliability Growth Model. In: Radioelektronika 2010. - Brno: VUT, 2010. - ISBN 978-1-4244-6319-0. - p. 97-100. (in English)
- [13] KUKUČKA, M. - KRAJČUŠKOVÁ, Z.: Voltage Chart of Human Skin Measurement. In: Telecommunications and Signal Processing TSP-2010: 33rd International Conference on Telecommunications and Signal Processing. Baden near Vienna, Austria, 17.-20.8.2010. - Budapest: Asszisztencia Szervező Kft., 2010. - ISBN 978-963-88981-0-4. - CD-Rom. (in English)
- [14] KUPEC, P. - PATSCH, M. - HAJACH, P.: Specific Absorption Rate of RF Field in Human Body. In: ELITECH'10: 12th Conference of Doctoral Students. Bratislava, Slovak Republic, 26.5.2010. - Bratislava: STU, 2010. - ISBN 978-80-227-3303-8. - CD-Rom. (in English)



- [15] LOJKO, B. - ČERNÝ, M. - JENDRUCH, M. - FUCHS, P.: Circuit Simulation vs. Behavioral Modeling of a VCO. In: New Trends in Signal Processing. 10th International Scientific Conference. Tatranské Zruby, Slovak Republic, 26.-28.5.2010. - Liptovský Mikuláš: Armed Forces Academy, 2010. - ISBN 978-80-8040-399-7. - CD-Rom. (in English)
- [16] LUKÁČ, T. - PÚČIK, J.: Biosignal Processing in Simulink. In: ŠVOČ 2010: Proceedings of Selected Works. - Bratislava: FEI STU, 2010. - ISBN 978-80-227-3286-4. - CD-Rom. (in Slovak)
- [17] NAGY, G. - HAGARA, M.: Rain Sensor. In: ŠVOČ 2010: Proceedings of Selected Works. - Bratislava: FEI STU, 2010. - ISBN 978-80-227-3286-4. - CD-Rom. (in Slovak)
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