

**DEPARTMENT OF RADIO AND ELECTRONICS**

<http://www.kre.elf.stuba.sk/>

**Head of Department**

**Doc. Ing. Vladimír Kudják, PhD.**

e-mail:vladimir.kudjak@stuba.sk

Tel: +421-2-654 22 765

Tel/Fax: +421-2-654 29

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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 Hribik, 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, Ing. Elena Cocherová, PhD., Ing. Miroslav Hagara, Ing. Zuzana Krajčušková, PhD., Ing. Peter Kubinec, Ing. Marek Kukučka, PhD., Ing. Branislav Lojko, Ing. Marián Minárik, PhD., Ing. Jozef Petrek, PhD., Ing. Anna Přibilová, PhD., Ing. Jozef Púčik, PhD., Ing. Vladimír Štofanič, PhD.
Research Workers	Ing. Ján Bezek, PhD., Ing. Vladimír Bilík, PhD., Doc. Ing. Peter Fuchs, PhD.
Technical Staff	Bohumil Frey, Ivana Prokopová, Gabriela Vránová (secretary), Edita Boďová
PhD. Students	Ing. Martin Krajmer, Ing. Michal Lipovský, Ing. Stanislav Lovás, Ing. Michal Majchrák, Ing. Ján Zemanovič, Ing. Filip Krajčovič, Ing. Peter Šaštinský, Ing. Matúš Jendruš, Ing. Jozef Šurda

**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 (subterranean)
- 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. Štofáňik
Microwave Techniques	(5th, sem., 3-2h)	P. Hajach
Radio Communication Techniques	(5th sem., 2-2h)	P. Podhoranský
Electronic Circuits	(5th sem., 3-2h)	P. Kulla
Bachelor Project I	(5th, sem., 0-4h)	O. Ondráček
Digital and Pulse Circuits	(6th sem., 3-2h)	P. Kulla
Microwave Techniques and Radio Communication	(6th, sem., 3-2h)	P. Hajach, P. Podhoranský
Audio and Video Technique	(6th sem., 2-2h)	A. Přibilová, P. Kulla
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
Biophysics	(1st sem., 3-2 h)	E. Cocherová
Medical Electronic Transducers, Circuits and Equipment	(1st sem., 3-2 h)	M. Kukučka
Radio Communication	(2nd sem, 3-2h)	J. Petrek
Digital Signal Processors	(2nd sem., 3-2h)	P. Fuchs
Analyses of Biosignals and Systems	(2nd sem., 3-2h)	J. Půčik
Radionavigation Systems	(2nd sem., 3-2h)	M. Minárik
Electronic Measurement, Equipment and Systems	(2nd sem., 3-2h)	J. Hribik
Antennas and Radio Communications Link Design	(2nd sem., 3-2h)	P. Hajach
Signal Recording	(2nd sem., 3-2h)	P. Podhoranský
Sound Techniques	(2nd sem., 3-2h)	A. Přibilová
Diploma Project I	(1st, 2nd sem., 0-6h)	V. Kudják O. Ondráček
Diploma Project II	(2nd, 3rd sem., 0-6h)	V. Kudják, O. Ondráček

Diagnostic in Medicine	(3rd sem., 3-2h)	M. Kukučka
Power Electronics	(3rd sem., 3-2h)	J. Hribik
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)

Microprocessor Systems	B. Lojko
Bachelor Project II	J. Půček
Diploma Thesis	O. Ondráček
Applied Electronics	J. Hribik
Digital Signal Processing	O. Ondráček

### IV. RESEARCH PROJECTS

- Audio-Visual Representation of Emotional States. COST 2102/STU/08, A. Přibilová
- Progressive Digital Processing Methods of Non-Deterministic Video Signals and Biomedical Signals with Direct Application in Modern Systems of Signals Digital Processing and Visualisation. VG-1/3107/06, P. Kulla
- Screening Capacitance Microscope with High Sensitivity and Resolution, and with Sensing Head Controlled by Lateral Forces. VEGA č. 2/5097/25, J. Hribik
- CWFM Signals Creation and Research of Influence on Biological Objects; Technical and Environmental Approach. VG 1/3093/06, I. Baláž
- Modern Methods of Digital Signal Processing in Radio Electronics, Biomedicine, Electronic Measurement, Multimedia and Vehicular Technology, AV-4/0012/07, P. Fuchs
- Modern Systems of Signal Processing Applications in Audio-Video Technique – Part Audio, A. Přibilová
- AMR and PLC Communication, P. Podhoranský
- Modern Systems of Signal Processing Applications in Audio-Video Technique – Part Video, P. Kulla
- Power Amplifiers for Electricity Meters Test Stations – Part Electricity Measurement, J. Hribik, M. Hruškovic
- Portable AC Current Source – Part Electricity Measurement, M. Hruškovic, J. Hribik
- Digital Processing of Biomedical Signals, E. Cocherová
- Power Amplifiers Analysis for Calibration Stations, J. Hribik
- 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
- Frequency Synthesis in the LERA Transceiver by the DAFC, 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
- Adaptive Noise Canceling of the Acoustic Signal, P. Fuchs, L. Burián
- Aviation Radio Station 'LERA TRX 1.5S', P. Fuchs, B. Lojko
- Digital Calibration and Registration Electricity Meter, P. Fuhs, J. Hribik

#### Collaboration:

- Aeronautical Station LERA TRX 1.5S (LOBB, Banská Bystrica)
- Digital Calibration/Registration Electricity Meter (Křížik GBI jsc, Prešov)
- Electronic Calibration Station EKS-03 (Applied Meters jsc, Prešov)
- Power Amplifiers for Electricity Meters Test Stations (Applied Meters jsc, Prešov)
- Portable AC Current Source (Applied Meters jsc, Prešov)

## **V. COOPERATION**

### **V.1 Cooperation in Slovakia**

- Academy of Music and Dramatic Arts, Film and Television Faculty
- Applied Meters jsc
- ANDIS Ltd. Bratislava
- AMSET Ltd., Bratislava
- Centre of Acupuncture, 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
- LOBB, Banská Bystrica
- Main Data, Bratislava
- Mediatech, Bratislava
- Mensch & Technik Energiemanagement Ltd., Bratislava
- National Academy of Defence, Liptovský Mikuláš
- National Security Institute, Bratislava
- PHILIPS Slovakia, Bratislava
- PRIUS, Bratislava
- Prof. Dérer Hospital, Bratislava
- RACOM, Slovakia
- SATRO Ltd., Bratislava
- Slovak Broadcasting Corporation, Bratislava
- Slovak Institute of Technical Normalization, Bratislava
- Slovak Telecommunications / Radiocommunications, Bratislava
- Slovak Television, Bratislava
- MIRONIX Bratislava
- Special Software and Systems, Bratislava
- Telecommunication Office SR, Bratislava
- T-Mobile
- Transient MS Ltd., Bratislava
- 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
- Czech Technical University, Prague, CzR
- GAČR, Prague, CzR
- IBME Brno, CzR
- Institut für Allgemeine Physik, TU Vienna, Austria
- Laboratory for Biomedical Informatics, Delft, the Netherlands
- MtronPTI, Orlando, FL, USA
- Muegge Electr., GmbH, Germany
- Nofech Electronics Ltd., Jerusalem, Israel
- PHILIPS, Components Center Vienna, Austria
- Technical University Brno, CzR
- Technical University Ostrava, CzR
- Texas Instruments, Inc, USA

- University of Applied Sciences, Heilbronn, Germany
- Universite de Nantes, France
- URE AV CzR, CzR
- URSI Prague, CzR
- UTIA AV CzR, CzR
- TRICOM GmbH, Freising, Germany
- TR instruments Ltd., Brno, CzR
- Xidian University, Xidian, China.

### V.3 Membership in International Organizations and Societies

- I. Baláž: URSI, Union Radio-Scientifique Internationale, Member of NC
- I. Baláž: IEEE, The Institute of Electrical and Electronics Engineers, Member
- E. Cocherová: 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
- Z. Krajčušková: URSI, Scientific Secretary
- V. Kudják: IEEE, The Institute of Electrical and Electronic Engineers, Member
- P. Kulla: IET, The Institution of Engineering and Technology, Fellow
- J. Hribík, O. Ondráček, Z. Krajčušková: Radioengineering, Proc. Of Czech and Slovak Technical Universities and URSI Committees, Members of Editorial Board, IEEE
- O. Ondráček: Acta Electrotechnica et Informatica, Proc. Of TU Košice, Member of Editorial Board
- J. Hribík, O. Ondráček, Z. Krajčušková: Radioengineering, Proc. of Czech and Slovak Technical Universities and URSI Committees, Members of Editorial Board, IEEE
- O. Ondráček: IFMBE, the International Federation for Medical and Biological Engineering
- J. Púčik: IFMBE, the International Federation for Medical and Biological Engineering
- A. Přibilová: 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 Communication, Member of the Management Committee
- V. Štofanič: URSI, Union Radio-Scientifique Internationale, Member
- V. Štofanič: IEEE, The Institute of Electrical and Electronics Engineers, Member
- V. Štofanič: IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Member
- V. Štofanič: IEEE Communications Society, Member

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

- E. Cocherová: SBEMI, Society for Biomedical Engineering and Medical Informatics, Member of Committee
- E. Cocherová: SKBS, Slovak Biophysical Society, Member
- O. Ondráček: SBEMI, Society for Biomedical Engineering and Medical Informatics, Member
- J. Púčik: SBEMI, Society for Biomedical Engineering and Medical Informatics, Member

## **VI. THESES**

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

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

- [1] P. Adamec: Attenuator for Two-Channel Sampling Oscilloscope (Z. Brezovič)
- [2] R. Benčík: Image Encoding in DVB Systems.(P. Kulla)
- [3] M. Braun: Class E Power Amplifiers (M. Hruškovic)
- [4] A. Galád: E-learning Applications in Medical Diagnostics (M. Kukučka)
- [5] M. Herbrík: Methods for Computing of Discrete Fourier Transformation and Utilization of FFT for Spectral Analysis of Audiosignals (B. Lojko)
- [6] M. Hombauer: Short Rangr Radar Systems and Their Applications (I. Baláž)
- [7] M. Hosťovecký: Control Applications Based on GSM Technology (B. Lojko)
- [8] J. Ižak: Dual-Mode Piezoelectric Oscillator (M. Minárik)
- [9] M. Jaroš: Digital Audio Effects - DSP Implementation of the Flanger Effect (P. Kubinec)
- [10] V. Ježek: Reliability Growth Models Electronic Devices (Z. Krajčušková)
- [11] T. Kadnárová: Computer Assessment of Signal Parameters (J. Púčík)
- [12] M. Klinčok: EEG Signal Processing Using Neural Networks (J. Púčík)
- [13] O. Kolibiar: Discrete Reliability Growth Models Electronic Devices (Z. Krajčušková)
- [14] P. Kostolanský: Low Frequency Power Measurement (J. Hribík)
- [15] V. Košnár: Exact Adjustable Computer Controlled Voltage Source (M. Hruškovic)
- [16] S. Kozinka: Two-Channel Sampling Oscilloscope for Laboratory Purposes (Z. Brezovič)
- [17] P. Macek: Image Lever Oscillator (M. Minárik)
- [18] T. Mackovič: Device for Meteorological Measurements (Z. Krajčušková)
- [19] M. Miština: Applications of the Analog and Digital Allpass Systems (O. Ondráček)
- [20] P. Novák: Low - Frequency Digital Phase Meter (J. Hribík)
- [21] J. Pánik: Simulation of Physical Phenomena in MR Imaging (J. Púčík)
- [22] T. Pospíchal: Pupillary Light Reflex Modeling (J. Púčík)
- [23] M. Prekop: Dual-Mode Signal Generator (M. Minárik)
- [24] P. Prno: Data Transfer from Navigation System GPS by GSM Network (B. Lojko)
- [25] M. Smolárik: Loudspeaker Boxes with Acoustical Circuits (P. Kubinec)Š
- [26] M. Šeliga: Solution of Electrostatic Fields by FEM Method (E. Cocherová)
- [27] S. Štadler: Microstrip Resonators (P. Hajach)
- [28] P. Šuba: Application of the LMS Algorithm for Cancellation of an Echo in Audio Systéme (B. Lojko)
- [29] F. Takacs: PCI Intweface of System for Digital Image Processing with Double Line CCD Senzor (P. Kulla)
- [30] M. Tomaníček: Thyreomat - a Knowledge Base Creation (M. Kukučka)
- [31] T. Tóth: Signal Generator (M. Hruškovic)
- [32] M. Uhrík: Biomedical Signal Acquisition Based on AD512 (M. Kukučka)
- [33] M. Vangel: Modeling and Simulation of Frequency Looeked Loop with VCO and

JTOS200 by Matlab (P. Fuchs)

[34] G. Zapletal: Modeling of Heart Cell Function (E. Cocherová)

## VI.2 Doctoral Theses

[1] Z. Krajčušková: Unconventional Reliability Growths Models (O. Ondráček)

[2] M. Jus: Allpass Filters and Design with Genetic Algorithm (O. Ondráček)

[3] J. Huska: New Method of Motion Estimation in Interframe Coding in Digital Television Systems (P. Kulla)

## VII. OTHER ACTIVITIES

- J. Petrek: Concentrator Placement Problem Solution in the Optimized Radio Network Design. Contribution on 3rd International workshop on grid computing GCCP 2007, October 22 - 23, 2007, pp. 38 -4 4
- J. Petrek: FWA Utilization in Urban Areas. Contribution on 'IDEME', Bratislava, June 18 - 19, 2008
- Co-organizing of the 18<sup>th</sup> International Conference Radioelektronika 2008. Prague, 24 - 25 April, 2008

## VIII. PUBLICATIONS

### VIII.1 Journals

- [1] GAŠPARÍK, I., VARGA, G., ONDRÁČEK, O.: Security Systems with the Videosensor Vehicle Identification. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 14, Special Issue (2008), p. 7-10. (in Slovak)
- [2] GAŠPARÍK, I., ONDRÁČEK, O.: The Integrated Security Systems of Intelligent Buildings Based on RFID Technology. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 14, Special Issue (2008), p. 11-14. (in Slovak)
- [3] HRUŠKOVIC, M., HRIBIK, J.: Digital Capacitance and Inductance Meter. In: Measurement Science Review. - ISSN 1335-8871. - Vol. 8, Section 3, No. 3 (2008), p. 61-64. (in English)
- [4] LOVÁS, S., ONDRÁČEK, O., COCHEROVÁ, E., PÚČIK, J., ŠURDA, J.: Education of Biomedical Engineering in Department of Radio and Electronics at FEI STU Bratislava. In: Lékař a technika. - ISSN 0301-5491. - Vol. 38, No. 2 (2008), p. 109-111. (in English)
- [5] MAJCHRÁK, M., LOVÁS, S., FUCHS, P.: Microphone Array Signal Processing and Its Application in Telecommunications. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 14, Special Issue (2008), p. 229-231. (in Slovak)
- [6] PŘIBYL, P., KOŠŤÁL, M.: Methodology for Fire Testing in Road Tunnels. In: Tunel. - ISSN 1211-0728. - Vol. 17, No. 1 (2008), p. 29-32. (in Slovak, in English)
- [7] ZEMANOVIČ, J., PODHORANSKÝ, P., LIPOVSKÝ, M., KRAJČOVIČ, F.: Employing the LonWorks Network in Personal and Estate Protection. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 14, Special Issue (2008), p. 15-18. (in Slovak)

### VIII.2 Conference Proceedings

- [1] BENČÍK, R., KULLA, P.: Image Encoding in DVB Systems. In: ŠVOČ 2008: Proceedings of Winning Works. Bratislava, Slovak Republic, 23.4.2008. - Bratislava: STU, 2008. - ISBN 978-80-227-2865-2. - CD-ROM. (in Slovak)
- [2] BILÍK, V., BEZEK, J.: Investigation of High-Power Limits of Stub Tuners by Means of Electromagnetic Simulation. In: COMITE 2008. 14th Conference on Microwave Techniques:

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- Prague, Czech Republic, 23.-24.4.2008. - Prague: Czechoslovak Section of IEEE, 2008. - ISBN 978-1-4244-2137-4. - p. 99-102. (in English)
- [3] BREZOVIČ, Z., KUDJÁK, V.: An Analysis and Performance Evaluation of a PLL's with Simulation Software. In: Applied Electronics 2008: International Conference. Pilsen, Czech Republic, 10.-11.9.2008. - Pilsen: University of West Bohemia, 2008. - ISBN 987-80-7043-654-7. - p. 21-24. (in English)
- [4] BREZOVIČ, Z., KUDJÁK, V.: Linear and Nonlinear Model of PLL Frequency Synthesizer. In: Applied Electronics 2008: International Conference. Pilsen, Czech Republic, 10.-11.9.2008. - Pilsen: University of West Bohemia, 2008. - ISBN 987-80-7043-654-7. - p. 17-20. (in English)
- [5] BREZOVIČ, Z.: Linearized Power Detector with 32-bit RISC Microprocessor for 2.45 GHz ISM Band. In: COMITE 2008. 14th Conference on Microwave Techniques: Prague, Czech Republic, 23.-24.4.2008. - Prague: Czechoslovak Section of IEEE, 2008. - ISBN 978-1-4244-2137-4. - p. 25-27. (in English)
- [6] BREZOVIČ, Z., KUDJÁK, V.: Model PLL Phase-Noise Performance in Matlab. In: ELITECH '08: PhD Students Conference. Bratislava, Slovak Republic, 20.5.2008. - Bratislava: STU, 2008. - ISBN 978-80-227-2878-2. - CD-Rom. (in English)
- [7] BREZOVIČ, Z., KUDJÁK, V.: PLL Synthesizer with Very Low Discrete Spurious. In: Radioelektronika 2008: Proceedings of 18th International Conference. Prague, Czech Republic, 24.-25.4.2008. - Piscataway: IEEE, 2008. - ISBN 978-1-4244-2087-2. - p. 171-174. (in English)
- [8] BRTÁNYI, P., KUDJÁK, V.: DRM Receiver for Laboratory Purposes. In: ŠVOČ 2008: Proceedings of Winning Works. Bratislava, Slovak Republic, 23.4.2008. - Bratislava: STU, 2008. - ISBN 978-80-227-2865-2. - CD-ROM. (in Slovak)
- [9] BURIAN, T., LIPOVSKÝ, M.: Selected Properties of Radio Channels and Their Simulation in MATLAB/SIMULINK. In: ŠVOČ 2008: Proceedings of Winning Works. Bratislava, Slovak Republic, 23.4.2008. - Bratislava: STU, 2008. - ISBN 978-80-227-2865-2. - CD-Rom. (in Slovak)
- [10] ČERVENÝ, L., HRIBIK, J.: Low Frequency Vacuum Tube Amplifier. In: ŠVOČ 2008: Proceedings of Winning Works. Bratislava, Slovak Republic, 23.4.2008. - Bratislava: STU, 2008. - ISBN 978-80-227-2865-2. - CD-Rom. (in Slovak)
- [11] COCHEROVÁ, E., ŠURDA, J., ONDRÁČEK, O., ŠTOFANIK, V.: RF Field Orientation Influence on the Specific Absorption Rate in a Biological Object. In: COMITE 2008. 14th Conference on Microwave Techniques: Prague, Czech Republic, 23.-24.4.2008. - Prague: Czechoslovak Section of IEEE, 2008. - ISBN 978-1-4244-2137-4. - p. 261-263. (in English)
- [12] GAŠPARÍK, I., ONDRÁČEK, O.: Radiocommunication Systems Ground and Their Complex Monitoring. In: Future of Land Navigation Instruments 2008: International Conference. Vrátna, 29.9.-1.10.2008. - Bratislava: Civil Aviation Authority of the Slovak Republic, 2008. - p. 54-64. (in Slovak)
- [13] GREKSA, Š., BREZOVIČ, Z.: Development and Design of Periphery Module for Evolutional Board with Microcontroller Atmel - AVR. In: ŠVOČ 2008: Proceedings of Winning Works. Bratislava, Slovak Republic, 23.4.2008. - Bratislava: STU, 2008. - ISBN 978-80-227-2865-2. - CD-ROM. (in Slovak)
- [14] HRIBIK, J., LÁNYI, Š., HRUŠKOVIC, M.: A High-Input-Impedance Buffer. In: Radioelektronika 2008: Proceedings of 18th International Conference. Prague, Czech Republic, 24.-25.4.2008. - Piscataway: IEEE, 2008. - ISBN 978-1-4244-2087-2. - p. 123-126. (in English)

- [15] HRIBIK, J., HRUŠKOVIC, M., FUCHS, P.: Air Flow Velocity Measurement. In: Mechatronika 2008: 11th International Conference on Mechatronics. Trenčianske Teplice, Slovak Republic, 4.-6.6.2008. - Trenčín: Trenčianska univerzita A.Dubčeka, 2008. - ISBN 978-80-8075-305-4. - p. 119-123. (in English)
- [16] HRUŠKOVIC, M., HRIBIK, J., FUCHS, P.: Digital Capacitance and Inductance Meter. In: New Trends in Signal Processing IX. International Scientific Conference. Tatranske Zruby, Slovak Republic, 28.-30.5.2008. - Liptovský Mikuláš: Academy of Armed Forces, 2008. - ISBN 978-80-8040-344-7. - p. 129-133. (in English)
- [17] HRUŠKOVIC, M., HRIBIK, J., FUCHS, P.: Portable Current Source. In: Control of Power Systems '08: 8th International Conference. Štrbské Pleso, Slovak Republic, 11.-13.6.2008. - Bratislava: STU, 2008. - ISBN 978-80-227-2883-6. - CD-Rom. (in English)
- [18] JENDRUCH, M., ZAHRADNÍK, I., NOVÁK, P., ŠAŠTINSKÝ, P.: Automatic Solution Exchange System for Electrophysiological Experiments. In: Applied Electronics 2008: International Conference. Pilsen, Czech Republic, 10.-11.9.2008. Pilsen: University of West Bohemia, 2008. - ISBN 987-80-7043-654-7. - p. 87-90. (in English)
- [19] KRAJČUŠKOVÁ, Z., BREZOVIČ, Z.: Electronic Elements and Circuits. In: Seminar of Circuits Theory. Brno, Czech Republic, 24.-25.9.2008. - Brno: VUT, 2008. - p. 128-131. (in Slovak)
- [20] KRAJČUŠKOVÁ, Z.: Unconventional Reliability Growth Model. In: Radioelektronika 2008: Proceedings of 18th International Conference. Prague, Czech Republic, 24.-25.4.2008. - Piscataway: IEEE, 2008. - ISBN 978-1-4244-2087-2. - p. 207-210. (in English)
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