DEPARTMENT OF ELECTROMAGNETIC THEORY

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I. STAFF

Professors	Prof. Ing. Jozef Jasenek, PhD., Prof. Ing. Jozef Sláma, PhD.
Associate Professors	Doc. Ing. Ivan Bojna, PhD., Doc. Ing. Jan Bydžovský, PhD., Doc. Ing. Rastislav Dosoudil, PhD., Doc. Ing. Peter Jahn, PhD., Doc. Ing. Vladimír Jančárik, PhD., Doc. Ing. Ľubomír Šumichrast, PhD., Doc.Ing. Elemír Ušák, PhD.
Assistant Professors	Ing. Jozefa Červeňová, PhD., Ing. Jaroslav Franek, PhD., Ing. Mojmír Kollár, PhD., Ing. Pavol Krivošík, PhD., Ing. Marian Štofka, PhD.
Senior Scientists	Ing. Vladimír Olah, PhD., Ing. Jozef Paľa, PhD.
Research Workers	Ing. Marianna Ušáková
Technical Staff	Marta Jančovičová (secretary), Mária Brunovská, Milan Brunovský, Alojz Vďačný
PhD Students	Ing. Martin Šoka, Ing. Branislav Korenko

II. EQUIPMENT

II.1 Teaching and Research Laboratories

- Laboratory of Electric Circuits
- Laboratory of Electromagnetic Field
- Laboratory of Optoelectronics
- Laboratory of Signal Processing
- Laboratory of Microwave Technology
- Laboratory of Pulse and Nonlinear Electrodynamics
- Laboratory of Electronics
- Laboratory of Applied Magnetism
- Laboratory of Magnetic Measurement
- Laboratory of Magnetic Materials Testing
- Laboratory of Magnetic Materials Technology
- Laboratory of Chemical Technology

II.2 Special Measuring Instruments and Computers

- Michelson interferometer for measurement of chromatic dispersion of single mode optical fibres
- Apparatus for generation of second harmonics in optical frequency range
- Apparatus for back-scattering measurement in optical fibers using photon counting method
- Correlator and Signal Analyzer, frequency range to 50 kHz
- Microwave power meter HP-432 B
- Spectral analyzer 10 MHz - 4 GHz
- Precision Wattmeter 104B, 4mW - 60 kW, up to 200 kHz
- VSM Magnetometer, H_m up to 0.8 MA/m, temperature range 77 K - 800 K

- Precision Gaussmeter, 1 μT - 10 T at DC, up to 1 kHz AC
- Lock-in-amplifier DSP SR 850 2nV to 1V
- High Coercivity Measuring Apparatus
- PC Controlled AC/DC Hysteresisgraph
- Automated System for Magnetic Susceptibility Temperature Dependence Measurement
- Universal Counter HP53132A up to 12.4 GHz
- Vibrator DERRITRON SC-3000 – mechanical resistance testing equipment
- RF Impedance/Material Analyzer HP4191 A 1 MHz-1 GHz, 1 mOhm - 100 kOhm, APC-7 coaxial (50 Ohm) input, GPIB standard; spot, linear and logarithmic frequency sweep
- HP4192A LF Gain Phase - Impedance Analyser, 5 Hz - 13 MHz, 0.1 mOhm - 1 MOhm, GPIB
- Optical fiber reflectometer JDSU - MTS 6000L
- Optical fiber polarimeter – POD-101D - General Electronics
- Switched Controlled DC Source SORENSEN DLM150-26E, 0 - 150 V, 0- 26 A, GPIB interface
- Four Channel Digital Oscilloscope 200 MHz, Tektronix TDS 2024B, IEE488
- Vector Network Analyzer Agilent 8714ET, 300 kHz - 3 GHz, GPIB interface

III. TEACHING

III.1 Undergraduate Study (Bc.)

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

Electric Circuits I	(2nd+3rd sem., 3-2h)	V. Jančárik, R. Dosoudil
Electrotechnology I	(2nd+3rd sem., 3-2h)	Ľ. Šumichrast, M. Kollár
Electrotechnology	(2nd+3rd sem., 3-2h)	J. Sláma
Theory of Electricity I	(2nd+3rd sem., 3-2h)	P. Jahn, M. Kollár
Electric Circuits II	(3rd+4th sem., 3-2h)	J. Jasenek, J. Bydžovský
Electrotechnology II	(2nd+3rd sem., 3-2h)	Ľ. Šumichrast
Theory of Electricity II	(2nd+3rd sem., 3-2h)	J. Bydžovský, M. Kollár
Theory of Electricity III	(2nd+3rd sem., 3-2h)	I. Bojna, J. Franek
Electromagnetic Field	(4th+5th sem., 3-2h)	J. Jasenek
Basics of Electrical Engineering	(FIIT 3rd sem., 3-2h)	E. Ušák
Electronics	(FIIT 4th sem., 3-2h)	E. Ušák

III.2 Graduate Study (Ing.)

Electromagnetism	(SvF 1st sem., 2-2h)	R. Dosoudil
Modelling of Fields	(1st sem., 2-2h)	Ľ. Šumichrast
Numeric metods in Electromagnetism	(SvF 1st sem., 2-2h)	Ľ. Šumichrast
Magnetism	(1st sem., 2-2h)	E. Ušák
Safety of Electric Equipment	(2nd sem., 2-1h)	I. Bojna

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

Electric Circuits I	(2nd sem., 2-2h)	R. Dosoudil, E. Ušák
Electric Circuits II	(3rd sem., 4-2h)	M. Kollár
Electromagnetic Fields	(4th sem., 3-1h)	Ľ. Šumichrast

IV. RESEARCH PROJECTS

- Optical fibre sensors and their application, 1/0617/09**,** J. Jasenek, Ľ. Šumichrast
- Methods and algorithms for computer simulation of high-frequency electromagnetic fields with applications, G/4085/07, Ľ. Šumichrast, M. Kollár
- Research and preparation of prospective magnetic nanomagnetic and hybrid composit materials for new applications in electrotechnology, electronics, and car production, 1/0575/09, J. Sláma, A. Grusková
- Nondestructive testing of stain and ferromagnetic materials for electrotechnology using new magnetoscopic methods, 1/0747/09, E. Ušák
- APVV-51-45605-1 (project in co-operation with Slovak Academy of Sciences) Superconductors in environment of power electrical equipments, Ľ. Šumichrast

V. COOPERATION

V.1 Cooperation in Slovakia

- Matador Púchov
- VA SNP L.Mikuláš
- EÚ SAV, Bratislava
- FÚ SAV, Bratislava
- IBOK, Bratislava
- EVPÚ, Nová Dubnica
- TU Košice (KEMT)

V.2 International Cooperation

- School of Physics and Electronic Systems Engineering, University of South Australia, Pooraka
- TU Budapest, Hungary
- Doshisa University, Japan
- Nuclear Engineering Research Laboratory, University of Tokyo, Japan
- Department of Physics Colorado State University Fort Collins, USA
- Instituto Eletrotecnico Nazionale Galileo Ferraris, Torino, Italy (since 1 January 2006 the IEN is part of: I.N.RI.M. - Istituto Nazionale di Ricerca Metrologica)
- TU Darmstadt, Institut für Hochfrequenztechnik, Germany
- TU Ilmenau, Germany
- TU Vienna, Austria
- Cardiff University, Wolfson Centre for Magnetic Technology, United Kingdom
- VEV Elektrotechnish Vakondernus Nijkjerk, The Netherlands
- TU of Czenstochowa, Poland
- Warsaw University of Technology
- Moscow Energy Institute, Russia
- Lublin Technical University, Poland
- Institute of Physics, Academy of Sciences of Czech Republic, Prague, CzR
- Institute of Inorganic Chemistry, Academy of Sciences of Czech Republic, Prague, CzR

- Czech Technical University, Prague, CzR
- West Bohemian University, Pilsen, CzR
- Technical University, Brno, CzR
- CINVESTAV, Saltillo, Mexico
- Research Institute for Technical Physics and Materials Science, Hungarian Academy of Sciences, Budapest, Hungary
- Politechnika Zagreb, Chorvatsko
- Faculty of Engineering, Universidad Nacional Autonoma de Mexico (UNAM), Ciudad de Mexico

V.3 Membership in International Organizations and Societies

- J. Jasenek, IEEE, Optical Society of America, European Physical Society, The International Society for Optical Engineering (SPIE), European Association for International Education (EAIE), European Association for Education in Electrical and Information Engineering (EAEEIE), American Society for Engineering Education (ASEE)
- M. Kollár, IEE Slovak Centre
- J. Sláma, IEE Slovak Centre, SAES, European Physical Society
- Ľ. Šumichrast, IEEE, IEE Slovak Centre, European Physical Society, President of the Slovak National Committee of the International Union of Radio Science (URSI), Optical Society of America (OSA), European Physical Society

VI. THESES

VI.1 Masters Theses

Masters theses supervised at the Department of Power Engineering. The names of supervisors are in brackets.

[1] Korenko, B.: Fiber optic reflectometry (J. Červeňová)

VI.2 PhD Theses

none

VII. OTHER ACTIVITIES

- Presidentship of the Slovak Committee of URSI and membership of International (Ľ. Šumichrast)
- Memberships in the Commission for the ‘PhD Degree Award’ in the study field Theoretical Electromagnetic Engineering (5.2.10), (J. Jasenek, J. Sláma, Ľ. Šumichrast, V. Jančárik, E. Ušák, J. Bydžovský)
- Memberships in the Commission for the ‘Award of the title of Associate Professor’ in the study field Theoretical Electromagnetic Engineering (5.2.10), (J. Jasenek, J. Sláma, Ľ. Šumichrast)
- Memberships in the Commission for the ‘PhD Degree Award’ in the study field Electrical Power Engineering (5.2.11), (P. Jahn)
- Membership in Slovak Expertise Commission for Electronics (J. Jasenek)
- Membership in Working Group of Accreditation Commission of the Goverment of Slovak Republic (J. Jasenek)
- Membership in Inauguration Commission at Militrary Academy L. Mikuláš (J. Sláma)
- Membership in Commission for Degree Doctor of Scienciare (DrSc) in Theoretical Electromagnetic Engineering (5.2.10), (J. Jasenek, J. Sláma)
- Membership in Slovak Academy of Engineering Sciences and Guarantor for Electrical Engineering (J. Sláma)

- Expert No. 256 for Branch of Metrology at the Institue of Normalization, Measurement and Standards (ÚNMS) of Slovak Republic (J. Bydžovský)
- Cooperation with Encyclopaedic Institute of Slovak Academy of Sciences - Encyclopaedia Beliana, (J. Sláma, P. Jahn, J. Franek)
- Executive Editor of Journal of Electrical Engineering - Elektrotechnický časopis (M. Kollár)
- Member of the Working Group for the implementation of the National Qualification Framework established by the Ministry of Education of the SR (J. Jasenek)
- Participation in the EIE-Surveyor: Reference point for Electrical and Information Engineering in Europe, Project Nr. 225997-CP-1-2005-1-FR-ERASMUS-TNPP, Project funded by the European Commission, SOCRATES Thematic Network, (J. Jasenek)
- Membership in the Scientific Commitee of Magnetic Measurement 2010 (J. Bydžovský, V. Jančárik, M. Kollár, J. Sláma, E. Ušák)
- Erasmus- Lifelong learning program, bilateral agreement for years 2007-2010, STU-NTUA (Greece), (J. Bydžovský)
- Membership in the Organizing Committee of EAEEIE Annual Conference 2010, Palanga, Lithuania (J. Jasenek)

VIII. PUBLICATIONS

VIII.1 Journals

[1] BOJNA, I.: Factor or Coefficient. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 5 (2009), Suppl. Volt, p. 7. (in Slovak)

[2] BOJNA, I.: Some Comments on the Application STN 33 2000-4-41: 2007 in Practice. In: Elektrotechnický magazín. - ISSN 1210-5422. - Vol. 19, No. 7-8 (2009), p. 10-14. (in Slovak)

[3] BOJNA, I.: Protection in the Locations with an Enhanced Risk of Electric Shocks. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 2 (2009), Suppl. Volt, p. 9-10. (in Slovak)

[4] BOJNA, I.: Identification of Cables, Conductors and Conductors Connection. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15. No. 3 (2009), Suppl. Volt, p. 2-5. (in Slovak)

[5] BOJNA, I.: Residual Current Device in Information Technology Equipment Circuits. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 6 (2009), Suppl.Volt, p.15. (in Slovak)

[6] BOJNA, I.: System for Cable and Conductors Designation. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 4 (2009), Suppl.Volt, p.. 2-3. (in Slovak)

[7] DAS, J., SONG, YY., MO, N., KRIVOŠÍK, P., PATTON, C.E.: Electric-Field-Tunable Low Loss Multiferroic Ferrimagnetic-Ferroelectric Heterostructures. In: Advanced Materials. - ISSN 0935-9648. - Vol. 21 (2009), p. 2045-2049. (in English)

[8] FRANEK, J., KOLLÁR, M.: Determination of Self and Mutual Inductance of a Double-Helix Coil. In: Journal of Electrical Engineering. - ISSN 1335-3632. - Vol. 60, No. 5 (2009), p. 268-272. (in English)

[9] GONZÁLEZ-ANGELES, A., GRUSKOVÁ, A., SLÁMA, J., LÓPEZ-CUEVAS, J., SAUCEDA-MEZA, I., MÁRQUEZ-GONZÁLEZ, J., PITALÚA-DIAZ, N.: Magnetic and Structural Studies of (Sn,Ni-Sn) Substituted Barium Hexaferrites Synthesized by Ball Milling. In: Dyna-Colombia. - ISSN 0012-7353. - Vol. 76 (2009), p. 61-65. (in English)

[10] HLAVÁČ, M., JASENEK, J., ČERVEŇOVÁ, J.: Custom Photon Couting OTDR for Optical C-Band. In: Journal of Electrical Engineering. - ISSN 1335-3632. - Vol. 60, No. 4 (2009), p. 215-218. (in English)

[11] JANÍČEK, F., JASENEK, J.: Bolognese Process and Technical Higher Education in Slovakia. In: Energetika. - ISSN 0375-8842. - Vol. 59, No. 7 (2009), p. 292-298. (in Slovak)

[12] KALARICKAL, S.S., MO, N., KRIVOŠÍK, P., PATTON, C.E.: Ferromagnetic Resonance Linewidth Mechanisms in Polycrystalline Ferrites: Role of Grain-to-Grain and Grain-Boundary Two-Magnon Scattering Processes. In: Physical Review B. - ISSN 1098-0121. - Vol. 79 (2009), art. no.094427. (in English)

[13] KORENKO, B., HLAVÁČ, M., ČERVEŇOVÁ, J., JASENEK, J.: Excitation of Semiconductor Laser for OTDR Based on Photon Couting. In: Acta Electrotechnica et Informatica. - ISSN 1335-8243. - Vol. 9, No. 4 (2009), p. 3-8. (in English)

[14] KRIVOŠÍK, P., KALARICKAL, S.S., MO, N., WU, S., PATTON, C.E.: Ferromagnetic Resonance and Damping in Granular Co-Cr Films with Perpendicular Anisotropy. In: Applied Physics Letters. - ISSN 0003-6951. - Vol. 95 (2009), Art. no. 052509. (in English)

[15] ORDÓÑEZ-ROMERO, C.L., KALINIKOS, B., KRIVOŠÍK, P., TONG, W., KABOŠ, P., PATTON, C.E.: Three-magnon Splitting and Confluence Processes for Spin-wave Excitations in Yttrium Iron Garnet Films: Wave Vector Selective Brillouin Light Scattering Measurements and Analysis. In: Physical Review B. - ISSN 1098-0121. - Vol. 79 (2009), art. no.144428. (in English)

[16] SLÁMA, J., GRUSKOVÁ, A., UŠÁKOVÁ, M., UŠÁK, E., DOSOUDIL, R.: Contribution to Analysis of Cu-substituted NiZn Ferrites. In: Journal of Magnetism and Magnetic Materials. - ISSN 0304-8853. - Vol. 321 (2009), p. 3346-3351. (in English)

[17] SLÁMA, J., ŠIROKÝ, P., ŠOKA, M., GRUSKOVÁ, A., JANČÁRIK, V.: Frequency Analysis of Nickel Based Magnetic Dielectrics. In: Journal of Electrical Engineering. - ISSN 1335-3632. - Vol. 60, No. 1 (2009), p. 39-42. (in English)

[18] SONG, YY., DAS, J., KRIVOŠÍK, P., MO, N., PATTON, C.E.: Electric Field Tunable 60 GHz Ferromagnetic Resonance Response in Barium Ferrite-barium Strontium Titanate Multiferroic Heterostructures. In: Applied Physics Letters. - ISSN 0003-6951. - Vol. 94 (2009), art.no.182505. (in English)

[19] ŠTOFKA, M.: DAC and Flip-Flops Form Constant-Current Source. In: EDN. - ISSN 0012-7515. - Vol. 54, No. 8 (2009), p. 48-52. (in English)

[20] ŠTOFKA, M.: Fast 10-Line-to-One-Line Data Selector/Multiplexer Comprises Only Two ICs. In: EDN. - ISSN 0012-7515. - Vol. 54, No. 11 (2009), p. 41-42. (in English)

[21] ŠTOFKA, M.: Handheld DMM Copes with Logic Nanosecond-Pulse-Width Waveforms. In: EDN. - ISSN 0012-7515. - Vol. 54, No. 16 (2009), p. 41-42. (in English)

[22] ŠTOFKA, M.: High-Speed Pulse Modulator Retains Signal Envelope. In: EDN. - ISSN 0012-7515. - Vol. 54, No. 15 (2009), p. 50-51. (in English)

[23] ŠTOFKA, M.: Isolation MOSFET-Driver IC Gets Improved Power Efficiency at Lighter Loads. In: EDN. - ISSN 0012-7515. - Vol. 54, No. 1 (2009), p. 52-53. (in English)

[24] ŠTOFKA, M.: Precision Tilt/Fall Detector Consumes Less Than 1.5 mW. In: EDN. - ISSN 0012-7515. - Vol. 54, No. 23 (2009), p. 39-40. (in English)

[25] ŠTOFKA, M.: Resistive DAC and Op Amp Form Hybrid Divider. In: EDN. - ISSN 0012-7515. - Vol. 54, No. 18 (2009), p. 48-49. (in English)

[26] STUPAKOV, O., PAĽA, J., TAKAGI, T., UCHIMOTO, T.: Governing Conditions of Repeatable Barkhausen Noise Response. In: Journal of Magnetism and Magnetic Materials. - ISSN 0304-8853. - Vol. 321 (2009), p. 2956-2962. (in English)

[27] ŠUMICHRAST, Ľ., EHRHARDT, M.: Comparison of the Continuous, Semi-Discrete and Fully-Discrete Transparent Boundary Conditions (TBC) for the Parabolic Wave Equation 1. Theory. In: Journal of Electrical Engineering. - ISSN 1335-3632. - Vol. 60, No. 6 (2009), p. 301-312. (in English)

[28] ZEMANOVÁ, M., CHOVANCOVÁ, M., KRIVOŠÍK, P.: A New Approach to Nickel Electrolytic Colouring of Anodised Aluminium. In: Chemical Papers. - ISSN 0366-6352. - Vol. 63, No. 1 (2009), p. 62-70. (in English)

VIII.2 Conference Proceedings

[1] BOJNA, I.: Actual Information of Standardization and Legislation in Electrical Engineering. In: 31st Conference of Slovak Electrical Engineers. Poprad, Slovak Republic, 4.-5.11.2009. - Bratislava: Slovenský elektrotechnický zväz, 2009. - p. 99-107. (in Slovak)

[2] BOJNA, I.: Actual Information of Technical Standardization and Legislation in Electrical Engineering Field. In: 30th Conference of Slovak Electrical Engineers. Bratislava, Slovak Republic, 25.-26.3.2009. - Bratislava: Slovenský elektrotechnický zväz, 2009. - p. 23-29. (in Slovak)

[3] BOJNA, I.: Some Experiences and Problems in Use of STN 33 2000-4-41. In: 30th Conference of Slovak Electrical Engineers. Bratislava, Slovak Republic, 25.-26.3.2009. - Bratislava: Slovenský elektrotechnický zväz, 2009. - p. 30-39. (in Slovak)

[4] BOJNA, I.: Requirements for Special Installations or Locations. In: 31st Conference of Slovak Electrical Engineers. Poprad, Slovak Republic, 4.-5.11.2009. - Bratislava: Slovenský elektrotechnický zväz, 2009. - p. 108-118. (in Slovak)

[5] BOJNA, I.: Specific Problems of Protection against Electric Shock in Practice. In: 31st Conference of Slovak Electrical Engineers. Poprad, Slovak Republic, 4.-5.11.2009. - Bratislava: Slovenský elektrotechnický zväz, 2009. - p. 119-129. (in Slovak)

[6] BOJNA, I.: Particularities of the Use of Protective Conductors and Protective Bonding Conductors According to STN 33 2000-5-54:2008. In: 30th Conference of Slovak Electrical Engineers. Bratislava, Slovak Republic, 25.-26.3.2009. - Bratislava: Slovenský elektrotechnický zväz, 2009. - p. 40-48. (in Slovak)

[7] BOJNA, I.: Sets of Rules STN 33 2000 - Part 7: Requirements for Special Installations or Locations. In: Electron 2009: 13th National Conference for Workers in Electrical Branches. Nitra, Slovak Republic, 20.5.2009. - Nitra: Ing. Pavel Hála Elektro Management, 2009. - CD-Rom. (in Slovak)

[8] BOJNA, I.: Selected Problems Related to the Application of in STN 33 2000-4-41 Practice. In: ELEKTROTEC 2009: 1st Meeting Electrical Engineers of Bratislava Region. Bratislava, Slovak Republic, 17.6.2009. - Bratislava: Elektro Management, 2009. - CD-Rom. (in Slovak)

[9] CHUDOVAN, J., ČERVEŇOVÁ, J.: The Fundamentals of Optical Fibers Electromagnetic Theory. In: Proceedings of the Students Expert Works. Bratislava, 29.4.2009. - Bratislava: FEI STU, 2009. - p. 95-100. (in Slovak)

[10] DOSOUDIL, R., UŠÁKOVÁ, M., FRANEK, J., SLÁMA, J., GRUSKOVÁ, A.: Particle Size and Concentration Effect on Permeability and EM-Wave Absorption Properties of Hybrid Ferrite Polymer Composites. In: 19th Soft Magnetic Materials Conference: Conference Program and Book of Abstracts. Torino, Italy, 6.-9.9.2009. - Torino: INRIM, 2009. - E1-06. (in English)

[11] GONZÁLEZ-ANGELES, A., LIPKA, J., GRUSKOVÁ, A., SLÁMA, J., JANČÁRIK, V., SLUGEŇ, V.: Magnetic Comparison of BaCa and BaSr Substituted Hexaferrite Powders. In: ICAME 2009. International Conference on the Applications of the Mössbauer Effect. Vienna, Austria, 19.-24.7.2009. - Vienna: Institute of Solid State Physics, 2009. - p. 342. (in English)

[12] GRUSKOVÁ, A., SLÁMA, J., UŠÁKOVÁ, M., SITEK, J., ŠOKA, M., JANČÁRIK, V.: Mössbauer Study of Be-Substituted NiZn Ferrites. In: APCOM 2009. Applied Physics of Condensed Matter: 15th International Workshop. Bystrá, Slovak Republic, 24.-26.6.2009. - Žilina: University of Žilina, 2009. - p. 239-242. (in English)

[13] KORENKO, B., JASENEK, J.: Polarization Optical Domain Reflectometry used for Sensoring Measurements. In: ŠVOČ 2009. Proceedings of Winning Works. Bratislava, Slovak Republic, 29.4.2009. - Bratislava: FEI STU, 2009. - ISBN 978-80-227-3094-5. - CD-Rom. (in English)

[14] PAĽA, J., BYDŽOVSKÝ, J., PETRYSHYNETS, I., KOVÁČ, F., STOYKA, V.: Barkhausen Noise Study of Grain Size in Non-oriented FeSi Steel. In: 19th Soft Magnetic Materials Conference: Conference Programm and Book of Abstracts. Torino, Italy, 6.-9.9.2009. - Torino: INRIM, 2009. - C1-05. (in English)

[15] PAĽA, J., BYDŽOVSKÝ, J., STOYKA, V., KOVÁČ, F.: Stabilization of the Barkhausen Noise Parameters. In: 19th Soft Magnetic Materials Conference: Conference Program and Book of Abstracts. Torino, Italy, 6.-9.9.2009. - Torino: INRIM, 2009. - B1-06. (in English)

[16] ŠIROKÝ, P., SLÁMA, J., PETRILÁK, J., SITÁR, Ján.: Complex Permeability and Composite Materials. In: ISTET 2009: 15th International Symposium on Theoretical Electrical Engineering. Lübeck, Germany, 22.-24.6.2009. - Berlin: VDE Verlag, 2009. - ISBN 978-3-8007-3166-4. - p. 252-256. (in English)

[17] ŠOKA, M., SLÁMA, J., DOSOUDIL, R., OLAH, V., ŠIROKÝ, P.: A Physical Aspect of the Magnetic Spectra Analysis of Ferrites and Ferrite-Polymers. In: 19th Soft Magnetic Materials Conference: Conference Program and Book of Abstracts. Torino, Italy, 6.-9.9.2009. - Torino: INRIM, 2009. - E1-17. (in English)

[18] SLÁMA, J., GRUSKOVÁ, A., ŠOKA, M., UŠÁKOVÁ, M., JANČÁRIK, V., FRANEK, J.: Analysis of Magnetic Properties the Substituted Li Ferrites. In: 19th Soft Magnetic Materials Conference: Conference Program and Book of Abstracts. Torino, Italy, 6.-9.9.2009. - Torino: INRIM, 2009. - E1-16. (in English)

[19] SLÁMA, J., UŠÁK, E., ŠOKA, M., GRUSKOVÁ, A., UŠÁKOVÁ, M., JANČÁRIK, V.: Analysis of Selected Be-substituted NiZn Ferrites. In: 19th Soft Magnetic Materials Conference: Conference Program and Book of Abstracts. Torino, Italy, 6.-9.9.2009. - Torino: INRIM, 2009. - E1-14. (in English)

[20] SMIEŠKO, V., JASENEK, J.: Slovak Higher Education and Bologna Process. In: Conference on Reforms of Higher Education in Europe: Warsaw, Poland, 12.3.2009. - Warsaw: Polish Ministry of Science and Higher Education, 2009. - http://www.erasmus.org.pl/s/p/artykuly/37/37/10_JSmiesko.pdf. (in English)

[21] ŠOKA, M.: Electromagnetic Properties Analysis of Dielectrics for Application in Electronics. In: Recent Advances in Numerical Modelling. - Warsaw: Electrotechnical Institute Publishing House, 2009. - ISBN 978-83-922095-8-4. - p. 25-29. (in English)

[22] ŠUMICHRAST, Ľ., EHRHARDT, M.: On the Transparent Boundary Conditions (TBC) for the Parabolic Wave Equations. In: ISTET 2009: 15th International Symposium on Theoretical Electrical Engineering. Lübeck, Germany, 22.-24.6.2009. - Berlin: VDE Verlag, 2009. - ISBN 978-3-8007-3166-4. - p. 309. (in English)

VIII.3 Part of Book

[1] THIRIET, J.-M., BURKLEY, C., HOFFMANN, M., JASENEK, J., MARTINS, M.J.M., ROBERT, M., WARD, A.: Implementation of the Bologna Process in Electrical and Information Engineering in Europe: Present Situation and Evolutions. In: EUA Bologna Handbook: C. Implementing Bologna in Your Institution. - Berlin: RAABE, 2009. - p. 1-26. (in English)

VIII.4 Textbook

[1] BOJNA, I.: Textbook for Professional Examination According to Notice 718/2002. - Bratislava: FEI STU, 2009. - 193 p. (in Slovak)