

**DEPARTMENT OF ELECTRICAL POWER ENGINEERING**

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

**Head of Department**

**Doc. Ing. Anton Beláň, PhD.**

e-mail: [anton.belan@stuba.sk](mailto:anton.belan@stuba.sk)

Tel.: +421-2-602 91 306 (249)

Fax: +421-2-654 25 826

**I. STAFF**

Professors	Prof. Ing. František Janíček, PhD., Prof. Ing. Alfonz Smola, PhD., Dr.h.c. Prof. Ing. Štefan Fecko, DrSc., professor emeritus
Associate Professors	Doc. Ing. Anton Beláň, PhD., Doc. Ing. Ivan Daruľa, PhD., Doc. Ing. Žaneta Eleschová, PhD., Doc. Ing. Dionýz Gašparovský, PhD., Doc. Ing. Daniela Reváková, PhD., Doc. Ing. Pavol Šandrik, PhD.
Assistant Professors	Ing. Attila Kment, PhD., Ing. František Krasňan, PhD., Ing. Marek Pípa, PhD.
Research Workers	Ing. Marek Krasňan, Ing. Martin Smieško, Mgr. Miroslava Smitková, PhD.
Technical Staff	Katarína Knežíková, Eva Molotová
PhD. Students	Ing. Peter Arnold, Ing. Peter Janiga, Ing. Ján Kolárik, Ing. Jozef Kováčik, Ing. Peter Koval', Ing. Juraj Kubica, Ing. Martin Liška, Ing. Dragan Minovski, Ing. Anton Rusnák, Ing. Juraj Šedivý, Ing. Igor Šulc, Ing. Igor Tomiš, Mgr. Marián Uhrík

**II. EQUIPMENT**

**II.1 Teaching and Research Laboratories**

- Laboratory of High Voltage Technology
- Laboratory of Lighting Technology
- Solar Energy Laboratory
- Laboratory of Electrical Installations
- Laboratory of Special Problems of Power Engineering
- Laboratory of Electrical Protections
- Laboratory of Renewable Energy Sources

**II.2 Special Measuring Instruments and Computers**

- Power network analyzer BK 550
- Cascade transformer, 1200 kV, 1500 kVA
- Impulse generator, 2500 kV, 100 kJ
- Installation system Instabus EIB
- Photometric integrator Ø 3 m
- Spectrofotometer
- Luminance meter

**III. TEACHING****III.1 Undergraduate Study (Bc. – Presentation and Distance Education Method)**

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

Transmission and Distribution of Electrical Energy	(4th sem., 3-2h)	Ž. Eleschová
High Voltage Technology	(5th sem., 2-3h)	P. Šandrik
Modelling and Simulation Basis	(5th sem., 3-2h)	A. Beláň, V. Kutiš
Automotive Electrotechnics	(6th sem., 3-2h)	A. Smola, L. Hüttner
Energy Sources and Conversion	(6th sem., 3-2h)	F. Janíček, I. Daruľa
Electrical Apparatus and Substations	(6th sem., 3-2h)	F. Janíček, F. Valent
Lighting Technology	(6th sem., 3-2h)	A. Smola

**III.2 Graduate Study (Ing. – Presentation and Distance Education Method)**

Steady State in Power System	(1st sem., 2-2h)	Ž. Eleschová
Electrical Networks	(1st sem., 2-2h)	D. Reváková
Theoretical Photometry and Colorimetry	(1st sem., 2-2h)	D. Gašparovský, F. Krasňan
Light Sources and Ballasts	(1st sem., 2-2h)	A. Smola
Electrical Part of Power Stations	(2nd sem., 2-2h)	I. Daruľa
Transient Phenomena in Power System	(2nd sem., 2-2h)	D. Reváková
Diagnostics and Expert Systems	(2nd sem., 2-2h)	P. Šandrik
Applied Electrical Power Engineering	(2nd sem., 2-2h)	A. Beláň
Engineering Ecology	(3rd sem., 2-2h)	I. Daruľa, J. Kubica
Luminaires	(2nd sem., 2-2h)	D. Gašparovský
Measurement of Light and Colours	(2nd sem., 2-2h)	D. Gašparovský, F. Krasňan
Power System Control	(3rd sem., 2-2h)	A. Beláň
Electrical Energy Utilization	(3rd sem., 2-2h)	A. Smola, L. Hüttner
Nonconventional Energy Sources	(3rd sem., 2-2h)	I. Daruľa
Protections and Automatics	(3rd sem., 2-2h)	F. Janíček
Electrical Lines	(3rd sem., 2-2h)	D. Gašparovský
Lighting Systems	(3rd sem., 2-2h)	A. Smola, F. Krasňan
Modelling and Power System Control	(3rd sem., 2-2h)	A. Beláň
Artificial Lighting	(4th sem., 2-1h)	A. Smola

#### **IV. RESEARCH PROJECTS**

- New control methods of complex power systems. APVV-20-0235-05, F. Janíček
- Investigation of electrical and magnetic fields of outdoor distribution stations in the Slovak electric grid. APVV-0399-06, A. Beláň
- Research and development of new precise current sensor for high and very high voltage application. APVV-0546-07, Ž. Eleschová
- The risk assessment of the blackout in the Slovak Power System under the conditions of multinationally interconnected power system. APVV-0337-07, A. Beláň
- Research of light transport through tubular skylights. APVV-0264-07, A. Smola
- Power Quality and Reliability of Electricity Supply. VEGA 1/0687/09, F. Janíček
- Integration of renewable energy laboratory into pedagogical process using multimedia interactive web interface. KEGA 3/7248/09, F. Janíček
- Competition and enlargement of academic information system on power engineering INFELN 019-002STU/2008, F. Janíček
- National centre for research and applications of renewable energy sources. ITMS 26240120016
- Research and technology transfer support of decentralised energy sources at STU using available biomass. ITMS 26240220028
- Research and technology transfer support of low-potential heat for electric power generation at STU. ITMS 26220220023

#### **V. COOPERATION**

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

- Nuclear Power Plants Research Institute (VÚJE jsc) Trnava
- Slovak Power Company (SE jsc) Bratislava
- Hydro Power Plants (SE-VET) Trenčín
- Nuclear Power Plants (SE-EBO) Jaslovské Bohunice
- Nuclear Power Plants (SE-EMO) Mochovce
- Nuclear Decommissioning Company (JAVYS jsc) Jaslovské Bohunice
- Nuclear Regulatory Authority of the Slovak Republic, Bratislava
- Slovak Electricity Transmission System (SEPS jsc) Bratislava
- Western Slovak Distribution Company (ZSE jsc) Bratislava
- Central Slovak Distribution Company (SSE jsc) Žilina
- Eastern Slovak Distribution Company (VSE jsc) Košice
- Regulatory Office for Network Industries (ÚRSO) Bratislava
- Faculty of Electrical Engineering and Information Technology TU Košice
- Faculty of Electrical Engineering ŽU Žilina
- Trenčín University of Alexander Dubček, Trenčín
- Siemens Ltd., Bratislava
- ABB Ltd., Bratislava
- LiV ELEKTRA jsc, Bratislava
- Philips Slovakia Ltd., Bratislava
- Osram Slovakia Ltd., Nové Zámky
- Slovak Telekom jsc, Bratislava
- Slovnaft jsc., Bratislava
- Orgeco Ltd., Nové Zámky
- AMI Ltd., Nové Zámky
- SLOS Ltd., Banská Bystrica
- Bellux Ltd., Bratislava
- OMS Ltd., Senica
- Bellatrix Ltd., Košice

- Zvolenská teplárenská jsc, Zvolen
- ŽOS Trnava jsc, Trnava
- Applied Precision Ltd.
- Slovak Institute of Metrology

## V.2 International Cooperation

- TU Ilmenau, Germany
- Osram, GmbH, München, Germany
- ABB Ltd., Brno, CzR
- Czech University of Technology Prague, CzR
- West Bohemian University Pilsen, CzR
- University of Technology Brno, CzR
- University of Technology Ostrava, CzR
- GE Lighting, Budapest, Hungary
- Tungsram Schröder, Budapest, Hungary
- Electrical Testing Facility, Prague, CzR
- MEI Moscow, Russia
- Tashkent Institute of Irrigation and Melioration, Faculty of Electrification and Automation, Tashkent, Uzbekistan
- Saint Cyril and Methodius University, Faculty of Electrical Engineering and Information Technologies, Skopje, Macedonia
- Visteon, Nový Jičín, CzR
- Helvar, Frankfurt, BRD
- Tridonic, Dornbirn, Austria
- Thorn Lighting CS, Prague, CzR
- Politechnika Opolska, Opole, Poland
- Silesian University of Technology, Gliwice, Poland
- Tianjin University, Tianjin, China

## V.3 Membership in Slovak Organizations and Societies

- D. Reváková, P. Šandrik: Members of Technical standardization committee No. 43 (Electrical power engineering) at Slovak institute for standardization
- A. Beláň: Chairman of Technical standardization committee No. 43 (Electrical power engineering) at Slovak institute for standardization
- A. Smola: Chairman of Technical standardization committee No. 108 (Light and lighting) at Slovak institute for standardization
- A. Smola: Member of Technical standardization committee No. 20 (Light fittings and light sources) at Slovak institute for standardization
- D. Gašparovský: Chairman of Technical standardization committee No. 84 (Electrical Installations and Protection against Electric Shock) at Slovak institute for standardization
- F. Janíček: Member of Slovak Academy of Engineering Sciences
- F. Janíček: Member of Academic board of FEI STU in Bratislava
- F. Janíček: Member of Academic board of STU in Bratislava
- F. Janíček: Member of Academic board of Faculty of Mechatronics Trenčín University
- F. Janíček: Member of Minister economy collegium
- F. Janíček: Chairman of Council for state programs of Ministry of Education SR and Ministry of Economy SR
- F. Janíček: Member of Academic board of Academy of the Armed Forces of general Milan Rastislav Štefánik in Liptovský Mikuláš
- F. Janíček: Chairman of Expert committee for electrical engineering, information technology, automation and control of Science and technology assistance agency
- F. Janíček: Member of Slovak nuclear forum
- F. Janíček: Board of trustees chairman of Konfucius institute at STU in Bratislava
- F. Janíček: Chairman of administer group of SE-ENEL – STU

- F. Janíček: Chairman of Slovak committee of World Energy Council
- A. Smola: Chairman of Slovak society of lighting technology
- A. Smola: Director of Forensic Institute of Electrical and Computer Technology
- A. Smola: Vicepresident of the Association of Slovak Scientific and Technological Societies
- D. Gašparovský, F. Krasňan, M. Pípa: Members of the Slovak society of lighting technology
- F. Janíček: Chairman of Departmental committee of scientific department 5.2.30 Electrical power engineering
- A. Beláň, Ž. Eleschová, I. Daruľa, D. Reváková, A. Smola, P. Šandrik: Members of Departmental committee of scientific department 5.2.30 Electrical power engineering
- I. Daruľa: Members of Common departmental committee of scientific department 39-25-9 Nuclear power engineering
- F. Janíček, D. Reváková, A. Smola, P. Šandrik: Members of Common departmental committee of scientific department 26-34-9 Electrical power engineering

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

- I. Daruľa, A. Beláň: CIGRE – International Council on Large Electric Systems, Paris
- D. Reváková, A. Beláň: CIRED – International Conference on Electricity Distribution, London
- F. Janíček: Member of World Energy Council, London
- F. Janíček: Member of Committee on Energy Research and Technology IEA, Paris
- P. Šandrik: IEC TC – International Electric Committee No. 42 – High Voltage Technology
- D. Gašparovský, A. Smola, F. Krasňan, M. Pípa: CIE – International Commission on Illumination, Vienna
- A. Smola: Honorary member ‘Society friends of public lighting’ (CzR)
- A. Beláň: IEEE - Institute of Electrical and Electronics Engineers, New Jersey

#### V.5 Contracts

- F. Janíček: Development of documents for expert work in the field 510000. Contract with Faculty of Civil Engineering, Slovak University of Technology in Bratislava
- F. Janíček, P. Koval': A benchmarking study of natural gas in storage tanks for the introduction of price regulation for gas storage. Contract with Regulatory Office for Network Industries (ÚRSO) Bratislava
- A. Beláň, Ž. Eleschová: Analysis of solar park connection to 22 kV distribution network. Contract with 1. obchodná spoločnosť, spol. s r.o.
- A. Beláň, Ž. Eleschová: Analysis of solar park connection to 22 kV distribution network. Contract with ActivHouse, s.r.o.
- A. Beláň, Ž. Eleschová: Analysis of solar park connection to 22 kV distribution network. Contract with Green Energy Slovakia, s.r.o.
- A. Beláň, Ž. Eleschová: Analysis of solar park connection to 22 kV distribution network. Contract with GRUY, spol. s r.o.
- A. Beláň, Ž. Eleschová: Analysis of solar park connection to 22 kV distribution network. Contract with KORY, s.r.o.
- A. Beláň, Ž. Eleschová: Analysis of solar park connection to 22 kV distribution network. Contract with MyENERGY, a.s.
- A. Beláň, Ž. Eleschová: Analysis of solar park connection to 22 kV distribution network. Contract with Pro Partners Asset Management, a.s.
- A. Beláň, Ž. Eleschová: Analysis of solar park connection to 22 kV distribution network. Contract with Sun4Energy, s.r.o.
- A. Beláň et al.: Analysis of combined cycle gas turbine plant to 110 kV distribution network. Contract with Paroplyn PB, a.s.

**VI THESES****VI.1 Masters Theses**

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

- [1] Arnold, P.: Dimensioning of pipes conductors (L. Habán, Ž. Eleschová)
- [2] Baboľ, R.: Casino lighting (J. Šimčisko, A. Smola)
- [3] Behula, M.: Design of a small hydro plant in north Slovakia region (V. Ondrejka, M. Pípa)
- [4] Bindzár, M.: Uprating of overhead lines (F. Kinčeš, D. Reváková)
- [5] Bobok, P.: Conception of evening towns picture making with light technology (A. Smola)
- [6] Buček, P.: Combined production of electrical and heat energy (I. Daruľa)
- [7] Hlucháň, D.: The model of the photovoltaic power plant slewed towards sun (M. Pípa)
- [8] Holka, R.: Current trends and alternatives in power engineering (I. Daruľa)
- [9] Hošťák, P.: Adaptive headlights in the vehicle transportation (A. Smola)
- [10] Janíček, M.: Increase in energy efficiency at the side of production of electronical switching generators with greater power output (8-10 kVA) by electric power recuperation, in the process of their burn in (L. Michalík, Ž. Eleschová)
- [11] Jašurek, M.: Project of electrical installation of apartment house (E. Múcska, M. Pípa)
- [12] Jatel, J.: Wind energy exploitation in renewable energy sources laboratory (M. Pípa)
- [13] Káčerik, S.: Principles of projection of biogas stations and their connection to distribution network (F. Janíček)
- [14] Kiss, P.: Lighting of sacral spaces (F. Krasňan)
- [15] Klein, M.: The effectiveness of the proposal for lighting systems (A. Smola)
- [16] Kolada, P.: Project of feeding of two-way light rail track from central city zone to external zone of the city (M. Bútorová, Ž. Eleschová)
- [17] Kolárik, J.: Photovoltaic power plant draft (M. Pípa)
- [18] Koza, M.: Design of a windturbine on the Savonius rotor base (M. Pípa)
- [19] Leskovjanský, M.: 110 kV mains analysis (I. Banas, Ž. Eleschová)
- [20] Lieskovská, L.: Energy performance of buildings in terms of lighting (D. Gašparovský)
- [21] Liška, M.: Energy saving solutions in technological process of manufacturing electronics switching power sources in progress of long term tests by burn in test (L. Michalík, Ž. Eleschová)
- [22] Magač, M.: Development programs for processing photometric measurement (F. Krasňan)
- [23] Mácha, M.: Properties of light sources and luminaires in dependence on various conditions (M. Bílek, A. Smola)
- [24] Majerský, M.: Illumination of Bratislava's centre (A. Smola)
- [25] Majoroš, R.: Airport alternating light and their serviceability (M. Pomanický, A. Smola)
- [26] Margicin, S.: The technological projection of devices in the Žitava river water power plant near Machulince (V. Ondrejka, M. Pípa)
- [27] Mašeja, M.: Quantification of the technical and economic use of biomass potential in Slovakia (J. Kubica)
- [28] Michalík, M.: Elimination of barrier of transparency and information in the energy market (F. Janíček)
- [29] Očkaj, M.: Insulated busbar system (M. Kučera, A. Beláň)
- [30] Paulech, J.: Measuring intensity of electric field with capacity probe (J. Lago, A. Beláň)
- [31] Priščák, M.: Production of electrical energy from wind (I. Daruľa)
- [32] Puškel, P.: Electromagnetic field in an environmental of external distribution points with most high voltage and especially high voltage (J. Lago, A. Beláň)
- [33] Rusnák, A.: Disquisition properties of LED in interrupted mode of lighting (S. Tabišová, F. Krasňan)
- [34] Saxa, M.: URSO order, that determines transmission, distribution and supply quality standards of energy in terms of distributive company (M. Nováková, A. Beláň)

- [35] Schulze, Ch.: Supporting of energy-supply with thermochemical heat-storage units (I. Daruľa)
- [36] Slušný, D.: Research of visual conditions in traffic (F. Krasňan)
- [37] Štefánik, J.: Illumination of historical buildings in Žiar nad Hronom (A. Smola)
- [38] Zlatoš, M.: Electrical design of polyfunctional building (M. Mojto, F. Krasňan)

## VI.2 Doctoral Theses

- [1] Kment, K.: Simulation of partial discharges for the needs of diagnostic care (P. Šandrik)
- [2] Smitková, M.: Integrated analysis of hydrogen production focused on water Splitting thermochemical cycles (F. Janíček)
- [3] Minovski, D.: Impact of renewable energy sources on ancillary services in the power system and a functional model of the market for ancillary services and control power in the Republic of Macedonia (F. Janíček)
- [4] Turanský, L.: Determination of the stator winding insulating system geometrical capacitance and its merit in dielectric spectroscopy (P. Šandrik)

## VII. OTHER ACTIVITIES

- F. Janíček, D. Reváková: Members of Editorial Board of the journal EE-Elektrotechnika a energetika (Journal of Electrical and Power Engineering), Bratislava
- F. Janíček: Member of Editorial Board of the Journal of Electrical Engineering, Bratislava
- A. Smola: Chairman of programme committee of 18<sup>th</sup> International conference 'Svetlo (Light) 2009', Jasná, October 2009
- A. Smola: Member of Board of Directors of 11<sup>th</sup> European lighting conference 'LUX EUROPA 2009', Istanbul (Turkey), September 2009
- A. Beláň, Š. Fecko, F. Janíček,: Members of International Scientific Committee of the 5<sup>th</sup> International scientific symposium 'Electrical Power Engineering 2009', Stará Lesná, September 2009
- F. Janíček, A. Smola: Members of International editorial board of internet journal EnergySpectrum, Brno
- A. Beláň: Member of Editorial Board of the internet journal 'Ageing of electroinsulation systems'
- A. Beláň, Ž. Eleschová, F. Janíček, D. Reváková: Members of International scientific committee of the 10<sup>th</sup> International scientific conference Electric Power Engineering 2009, Kouty nad Desnou (Czech Republic), May 2009
- A. Smola: Member of Editorial board of the journal TZB Haustechnik (Technical Buildings Installations), Bratislava
- A. Smola: Member of Editorial board of the journal Světlo (Light), Prague (Czech Republic)
- A. Smola: Head of the Institute of experts at the Faculty of Electrical Engineering and Information Technology, STU Bratislava
- A. Beláň, F. Janíček, A. Smola: Members of Program board of the conference Electrical Engineering, Information Technology and Telecommunication 'ELO SYS 2009', Trenčín, October 2009
- F. Janíček: guarantee of the 8<sup>th</sup> National conference 'Power Engineering – Ecology – Economy 2009', Nový Smokovec, May 2009
- A. Beláň, I. Daruľa, Ž. Eleschová, Š. Fecko, F. Janíček, D. Reváková: Members of International programme committee of the 8<sup>th</sup> National conference 'Power Engineering – Ecology – Economy 2009', Nový Smokovec, May 2009
- A. Beláň: Member of Scientific board of the International scientific conference 'Energomatika 2009', Prague (Czech Republic), September 2009
- A. Beláň: Member of Editorial board of the journal Electrical engineering in practice, Ostrava (Czech Republic)

**VIII. PUBLICATIONS****VIII.1 Journals**

- [1] BINDZÁR, M., SMITKOVÁ, M., DARUĽA, I.: Geothermal Energy in the World and in Slovakia. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 2 (2009), p. 12-14. (in Slovak)
- [2] BINDZÁR, M., SMITKOVÁ, M., DARUĽA, I.: Heat Pumps. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 3 (2009), p. 36-39. (in Slovak)
- [3] BINDZÁR, M., REVÁKOVÁ, D., SAMÁŠ, J.: High Temperature Conductors for Overhead Lines. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 5 (2009), p. 32-36. (in Slovak)
- [4] ELESCHOVÁ, Ž., BELÁŇ, A.: The Power System Steady-State Stability Analysis. In: EnergySpectrum. - ISSN 1214-7044. - Vol. 4, Iss. 2 (2009), p. 41-45. (in English)
- [5] GAŠPAROVSKÝ, D.: Reconstruction of Electrical Installations in Concrete Buildings for Living. In: Právo a prax v stavebníctve. - Vol. 1, No. 1 (2009), p. 1-4. (in Slovak)
- [6] 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)
- [7] JANÍČEK, F.: Address. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 3 (2009), p. 1. (in Slovak)
- [8] JANIGA, P.: Power Quality in Context Ageing of Compensating Capacitor in Lamps. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, Special Issue (2009), p. 47-50. (in Slovak)
- [9] KALUŠ, E., SMOLA, A.: Linear and Compact Fluorescent Lamps - Not Only a Source of Light. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 1 (2009), p. 35-40. (in Slovak)
- [10] KMENT, A., PÍPA, M.: AC Current Probe Development by the AID of High-Voltage Power Line Modeling. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, Special Issue (2009), p. 51-53. (in English)
- [11] KMENT, A., LELÁK, J., VÁRY, M.: Evaluation of Partial Discharge Phase Distribution on HV Cable with Cable Joint. In: Starnutie elektroizolačných systémov. - ISSN 1337-0103. - No. 7 (2009), p. 30-32. (in Slovak)
- [12] KOVÁČIK, J.: Application of Modern Diagnostics to Block Transformers in Nuclear Power Plants. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 4 (2009), p. 13-14. (in Slovak)
- [13] KOVÁČIK, J.: Monitoring of Non-Standard Phenomena of Voltage Systems in the Power System of the Slovak Republic. In: Starnutie elektroizolačných systémov. - ISSN 1337-0103. - No. 7 (2009), p. 22-24. (in Slovak)
- [14] KRASŇAN, M.: Means for Using Daylight as Inside Illuminations. In: TZB Haustechnik. - ISSN 1210-356X. - Vol. 17, No. 1 (2009), p. 52-53. (in Slovak)
- [15] LELÁK, J., KMENT, A., VÁRY, M.: Comparison of Partial Discharge Occurance on HV Cable with Cable by Means of HV Measurements. In: Starnutie elektroizolačných systémov. - ISSN 1337-0103. - No. 7 (2009), p. 28-29. (in Slovak)



- [16] MINOVSKI, D., ŠULC, I.: Renewable Energy Sources and Their Impact on the Electric Power System in the Republic of Macedonia. In: Posterus.sk. - ISSN 1338-0087. - June (2009), <http://www.posterus.sk/?p=744>. (in English)
- [17] PÍPA, M., KUBICA, J., JANÍČEK, F.: Laboratory of Renewable Energy Resources in the Curriculum of Power Engineering. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 2 (2009), p. 8-11. (in Slovak)
- [18] PÍPA, M.: Luminous Flux and Luminaire Efficiency Measurements by Integral Photometer and Spectrophotometer. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 1 (2009), p. 32-34. (in Slovak)
- [19] PÍPA, M., KMENT, A.: Modeling of Operational Conditions for Development of Measuring System for High Current on High Voltage Potential. In: Starnutie elektroizolačných systémov. - ISSN 1337-0103. - No. 7 (2009), p. 25-27. (in English)
- [20] PÍPA, M., JANIGA, P.: Power Disturbation of Dimmed Ballasts. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, Special Issue (2009), p. 60-64. (in Slovak)
- [21] SMITKOVÁ, M., DARULA, I.: Position of Renewable Energy Sources in European Union and in Slovakia. In: EE časopis pre elektrotechniku a energetiku. - ISSN 1335-2547. - Vol. 15, No. 2 (2009), p. 4-7. (in Slovak)
- [22] SMOLA, A.: Energy Audit and Certification of Buildings. Part6: Energy Consumption for Illumination: Potreba energie na osvetlenie. In: TZB Haustechnik. - ISSN 1210-356X. - Vol. 17, No. 6 (2009), p. 23-25. (in Slovak)
- [23] SMOLA, A., MAJERSKÝ, M.: Illumination of Buildings in Historical Centre of Bratislava. In: TZB Haustechnik. - ISSN 1210-356X. - Vol. 17, No. 5 (2009), p. 45-47. (in Slovak)
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