

### **Analysis of distribution substation topologies for energy exchanging between EV and utility networks**

**Mägi, Marek** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 158-167 : ill

### **Calculation of the traction effort of switching locomotive**

**Rassõlkin, Anton; Hõimoja, Hardi** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 61-65 : ill

### **Condition monitoring of electrical machines**

**Vaimann, Toomas; Kallaste, Ants** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 209-212 : ill

### **Dependence of land stability on applied mining technology**

**Karu, Veiko** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 252-255 : ill

### **Description of teaching process using six-dimensional space framework**

**Brindfeldt, Eduard; Müür, Margus; Pettai, Elmo** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 76-83 : ill

### **Design of primary power supply for composite LED luminary**

**Milaševski, Irena; Galkin, Ilja** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 122-125 : ill

### **Determination of leakage inductances of three-winding transformer for HF-PSA resonant circuit**

**Šklovski, Jevgeni; Janson, Kuno; Niilo, Helar** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 113-116 : ill

### **Development of electrical network of Tallinn University of Technology**

**Soots, Georg** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 88-92 : ill

### **Diagnostics system for electronic circuits**

**Melentjev, Sergei** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 192-194 : ill

### **Dual active bridge based isolation stage for power electronic transformer**

**Beldjajev, Viktor; Roasto, Indrek** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / lk. 216-219 : ill

### **Educational thesauri for mastering engineering courses**

**Vodovozov, Valery; Lehtla, Tõnu** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 24-29 : ill

### **Effectiveness analysis of microgrid modules**

**Peterson, Kristjan** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 146-148 : ill

### **Elaboration of tool for production process reliability evaluation in machinery industry**

**Kostina, Marina; Karaulova, Tatjana** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 263-268 : ill

### **Energy consumption of mini UAV helicopters with different number of rotors**

**Aleksandrov, Dmitri; Penkov, Igor** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 259-262 : ill

### **Evaluation of local aggregate unbound mixtures for Estonian highway base courses**

**Gulevitš, Julia; Talvik, Ott** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 239-243 : ill

### **Experiments with travelling wave transients for verification of suitability of sensor**

**Kütt, Lauri; Järvik, Jaan** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 149-152 : ill

### **Impact of conducting and insulating material to electric field**

**Järvik, Jaan; Mölder, Heigo; Vaimann, Toomas** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 107-112 : ill

**An information modeling method for electric micro grids**

**Korõtko, Tarmo** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 205-208 : ill

**Intelligent signal processing for improved measurement reliability**

**Ruban, Olga** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 177-181 : ill

**Large-scale wind integration impact on the Baltic region's electricity market participants in 2025 - with and without RES subsidies**

**Drovtar, Imre; Landsberg, Mart; Kilter, Jako; Rosin, Argo** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 117-121 : ill

**Methodology of system integrated analysis and assessment of operational efficiency of a technological system (E-Profiil AS case study)**

**Startseva, Emilia; Zahharov, Roman** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 280-286 : ill

**Microgrids performance challenges**

**Kazakov, Aleksei; Janson, Kuno; Vaimann, Toomas** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 42-46 : ill

**Nanodevices expectations in construction engineering**

**Aruväli, Tanel** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 289-294 : ill

**Novel multiport DC/DC converter for distributed energy systems**

**Andrijanovič, Anna** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 57-60 : ill

**Optimal design of elastic elements of ladder frames**

**Arjasov, Gennadi; Zhigailov, Sergei** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 287-288

**Profitability of energy storages for household load scheduling**

**Lebedev, Denis; Rosin, Argo; Auväär, Aivar** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 70-75 : ill

**Readability of research writing and text variables in readability formulas**

**Laane, Mare-Anne** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 7-10

**Slow-speed ring-shaped permanent magnet generator for wind applications**

**Kallaste, Ants; Vaimann, Toomas; Pabut, Ott** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 66-69 : ill

**Slurry erosion testing of steel with oil shale ash as abrasive**

**Priss, Jelena; Klevtsov, Ivan; Juhani, Kristjan; Antonov, Maksim** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 300-302 : ill

**Study of high brightness RGB light-emitting diode color control systems**

**Tetervonok, Oleg; Galkin, Ilja; Milaševski, Irena** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 168-171 : ill

**Sustainable assessment in dolostone mining management**

**Šommet, Julija; Pastarus, Jüri-Rivaldo** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 244-246 : ill

**Sustainable mining conditions in Estonia**

**Valgma, Ingo; Leiaru, Maris; Karu, Veiko; Iskül, Riho** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 229-238 : ill

**Teaching holistic value approach at Tallinn University of Technology**

**Randmaa, Merili** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 269-273 : ill

**Transient response analyse of different voltage-fed qZS-family inverters**

**Ott, Silver; Roasto, Indrek; Vinnikov, Dmitri; Teemets, Raivo** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 195-199 : ill

**Undesirable usage of energy in residential house**

**Niitsoo, Jaan; Palu, Ivo** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 126-128 : ill

**Value investigation for used automotive products by analysis of possible end-of-life scenarios**

**Baškite, Viktoria;** Durmanenko, Dmitri; Ševtsova, Kristina 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 295-299 : ill

**Water balance of the Selisoo bog and its changes caused by underground mining**

**Otsmaa, Merle** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 247-251 : ill., map

**Web-based learning with social networking of electronic engineering and electrical drives**

**Raud, Zoja** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 220-225 : ill

**Vector optimization of thermal power plants**

**Astapov, Victor** 11th International Symposium "Topical Problems in the Field of Electrical and Power Engineering." Doctoral School of Energy and Geotechnology II : Pärnu, Estonia, January 16-21, 2012 2012 / p. 213-215 : ill