

Poster Session II – Materials characterization, high frequency techniques and others

Tuesday, June 15, 2010, 10:50 – 12:10

- PS2/1** Ivan Tomas, Jana Kadlecova, Bretislav Skrbek, Gabor Vertesy, “*Decarburization of Steel Surfaces as Detected by Magnetic Adaptive Testing*” (91)
- PS2/2** Andreas Sorich, Marek Smaga, Dietmar Eifler, Ralf Tschuncky, Gerhard Hübschen, Iris Altpeter, Gerd Dobmann, “*Electromagnetic Nondestructive Evaluation of Fatigue Process and Phase Transformation in Austenitic Steels*” (93)
- PS2/3** Maciej Roskosz, “*Feasibility of Stress State Assessment on the Grounds of Measurements of the Residual Magnetic Field Strength of Ferromagnetics*” (95)
- PS2/4** Satoru Kobayashi, Shinichi Tsukidate, Hiroyuki Okazaki, Yasuhiro Kamada, Hiroaki Kikuchi, Toshihiro Ohtani, “*Magnetic Characterization of Material Degradation Using Dynamical Minor Loops*” (97)
- PS2/5** Katsuhiko Yamaguchi, Kenji Suzuki, Tsugiko Takase, Osamu Nittono, Tetsuya Uchimoto, Toshiyuki Takagi, “*Local Magnetic Properties and Magnetic Particle Distribution Due to Cr Depletion in Sensitized Ni Based Alloy*” (98)
- PS2/6** Karl F. Schmidt, Jack Little “*Application of Microwave Interferometry in Complex Engineered Dielectric Materials*” (100)
- PS2/7** Junming Lin, Hanlin Li, “*Solidification Evaluation of Lacquer Layer on Metal Plane by Electromagnetic Nondestructive Method*” (102)
- PS2/8** Paweł Lesiecki, Barbara Szymanik, “*Detection of Concealed Graphite Containing Frescos Using Microwave Enhanced Infrared Thermography*” (103)
- PS2/9** Adriana Savin, Rozina Steigmann, Alina Bruma, Nicoleta Iftimie, Raimond Grimberg, “*Metamaterials in Electromagnetic Nondestructive Evaluation*” (104)
- PS2/10** Dagmar Faktorová, “*Solid Materials Complex Permittivity Determination in High Frequency Range*” (106)
- PS2/11** Irshad Mohammad, Srikar Deshmukh, Xiang Xu, Haiying Huang, “*Remote Detection and Monitoring of Fatigue Crack Growth Using Antenna Sensor*” (107)
- PS2/12** Przemysław Łopato, Tomasz Chady, Joao Marcos Rebello, “*Terahertz Time Domain Inspection of Composite Coatings for Corrosion Protection*” (109)
- PS2/13** Przemysław Łopato, “*Studies on Time Domain Terahertz Tomography of Dielectric Materials*” (110)
- PS2/14** Hans-Peter Schmidt, Michael Anheuser, Sylvio Kosse, “*Simulation Assisted Diagnostic of Switching Arcs*” (111)
- PS2/15** Cristopher Seibold, Matthias Söllner, Rüdiger Schmidt, Jan-Stefan Michels, Stefan Witte, Derk Wesemann, Hans-Peter Schmidt, “*Measurement and Design Optimization for Contact Less Power Supplies in Industrial Automation*” (113)
- PS2/16** Yuji Akiyama, Yuta Niwa, “*Studies on Analysis Technique of Commutation Phenomena for Cleaner’s Universal Motor Using the State Variable Method*” (115)
- PS2/17** Yuji Akiyama, Yuta Niwa, “*Propositions for the Analysis of Commutation Phenomena of Universal Motors Using the State Function Method*” (117)
- PS2/18** Georgios Andreas Christofi, Charalambos P. Nicolaou, Panos A. Razis, “*Complete System for Monitoring and Controlling of the Electromagnetic Spectrum*” (119)
- PS2/19** Sofiane Khedimallah, B. Nekhou, L. Boufenneche, M. Chouki, “*Calculation and Analysis of Electromagnetic Radiation Powerline Communications in Domestic Networks*” (121)
- PS2/20** Tomasz Rymarczyk, Stefan Franciszek Filipowicz, Jan Sikora, “*Implementation of Piecewise Constant Level Set Framework in Electrical Impedance Tomography*” (123)
- PS2/21** Djazia Khelil, S. Bouazabia, L. Aggoune, S. Haddou, “*Characteristics of Electrical Discharge Evolving in an Environment Protected by a Lightning Rod*” (124)
- PS2/22** Konstanty M. Gawrylczyk, “*Semi-Discrete Time-Domain Sensitivity Analysis for Cracks Recognition*” (126)