



Accepted Papers

Plenary Session

- I. Mitelea, I. Utu, D. Ochian, M. Burcă*: Transformation Reactions by TIG Welded Joints of the Alloyed Steels Used for Endless Saw Blades (Romania)
- M. Sondel, J. Koukal, D. Schwarz, D. Schwarz*: Evaluation of Secondary Hardening, Microstructure in the Real T24 Steel Weld Joint (Czech Republic)
- G. R. Gillich, D. Frunzaverde, N. Gillich, J. L. Ntakpe, F. Muntean*: On the Influence of Damage-Caused Global Stiffness Decrease upon Structural Modal Parameters (Romania)
- F. Dinu, D. Dubina, I. Marginean, C. Neagu, I. Petran*: Structural Connections of Steel Building Frames under Extreme Loading (Romania)
- E. Petzek, E. Metes, D. Grecea, R. Bancila*: Pre-Cambering in Steel, Composite Bridge Structures (Romania)
- V. Tsakiris, W. Kappel, G. Velciu, C. Seitan, D. Talpeanu, F. Clicinchi, C. Hajdu, V. Marinescu*: Joining of Y_2O_3 -doped Aluminum Nitride with High Density Graphite by Spark Plasma Sintering (Romania)
- K. Yordanov, A. Stoyanova, J. Argirov*: Determining the Properties, Structure of Welded Copper Plates, Establishing their Connection with the Temperature Field Distribution in the Studied Zones (Bulgaria)
- S. Petronic, B. Grujic, D. Milovanovic, R. Jovicic*: Optimization of Laser Beam Cutting Process Parameters of Austenitic Materials (Serbia)
- Čamagić, N. Vasić, P. Živković, A. Radović, T. Sedmak, M. Burzić, Z. Burzić*: Compatibility of Endurance Limit, Fatigue Crack Growth Parameters in Evaluation of Low Alloyed Steel Welded Joint Behaviour (Serbia)
- C. Codrean, A. Magda, M. Burcă, D. Buzdugan*: Advanced Metallic Materials with Amorphous Structure Used for Resistance Brazing Joints (Romania)
- L. Bereteu, M. Vodă, D. R. Pascu, E. Nyaguly*: Influence of some Oxide Coating Layers on the Mechanical Properties of Steel Plates (Romania)
- L. Kun, I. Dumitru, D. Achiriloaiei, K. Kun*: Influence of Phase Shift, Amplitude Ratio on the Principal Stresses, Directions in Multiaxial Fatigue Testing (Romania)
- D. G. Dima, I. Balcu*: The Influence of the Path of Corner Gussets Weld Seam over the Stress Concentration Factors of the Tubular *T* Joints (Romania)
- M. Bodea, N. Sechel, F. Popa*: Investigation on the Flash Butt Welding of 51CrV4 Steels for Saw Blades (Romania)
- A. Pintilie, M. Bormambet, B. Radoiu*: Stresses, Strains in Main Gas Pipelines due to Ramifications (Romania)
- A. V. Birdeanu*: Shear Strength Variation for PLmT Welded Zn Coated Advanced High Strength Steels Used in Automotive Structures in Overlap Configuration (Romania)

Poster Session

- R. Aroshas, S. Kalabukhov, A. Stern, N. Frage*: Diffusion Bonding of Ceramics by Spark Plasma Sintering Apparatus (Israel)
- S. Bencar, V. Ungureanu, D. Dubina, M. Burcă*: Built-Up Cold-Formed Steel Beams with Corrugated Webs Connected with Spot Welding (Romania)
- L. Bereteu, I. Crăstiu, E. Nyaguly, D. Simoiu*: Investigation of a Camshaft Repaired by Welding Using the Vibration Signal Analysis (Romania)
- E. Binchiciu, T. Fleser, I. Voiculescu*: Chemical Active Coated Rods Used for Brazing (Romania)
- R. M. Buzdugan, N. Farbas, C. Craciunescu*: Failure Analysis of Ni Based Superalloys Welded Joints (Romania)
- M. Cocard, A. C. Murariu, E. Moldovan, C. Burian*: Case Study on Failures of Thermoplastics Pipeline Systems (Romania)
- F. Dinu, D. Dubina, C. Vulcu, C. Neagu*: Design by Qualification Testing of Reduced Beam Section Welded Connections (Romania)
- E. S. Dogar, I. Mitelea, V. A. Serban, C. Codrean*: Scratch Test, Adhesion Properties of Titanium Coatings Deposited by TIG Welding on Steels (Romania)
- A. Feier, E. Petzek, S. Hernea*: Life Prediction in Two Types of Cracks at Eye-Bars of the Cantilever Bridges (Romania)
- A. Feier*: Effect of Corrosion, Cracks at the Historical Steel Bridges (Romania)
- S. V. Galațanu, D. R. Pascu, N. Faur*: Evaluation of Fracture Toughness for P355NH Steel Subjected to Thermal Cycles Simulation (Romania)
- C. Ghera, I. Mitelea, I. Bordeasu, C. Craciunescu*: Effect of Heat Treatment on the Surfaces Topography Tested at the Cavitation Erosion from Steel 16MnCr5 (Romania)
- S. Hernea, D. Boldos, A. Feier*: Application of Fracture Mechanics to Determine the Remaining Lifetime of the Old Steel Bridges Decks (Romania)
- L. M. Micu, I. Mitelea, I. Bordeasu, C. M. Craciunescu, M. Popescu*: The Influence of Cooling Rate from High Temperature upon the Cavitation Erosion Resistance of the Duplex Stainless Steel X2CrNiMoN22-5-3 (Romania)
- E. Muncuț, A. Perianu, D. Glavan, G. Sima*: Structural Analysis for Joining Dissimilar Thin Sheets with CMT (Cold Metal Transfer) Process (Romania)
- A. C. Murariu*: Investigations on Structural Integrity of a Petrochemical Component (Romania)
- O. Oanca, N. A. Sîrbu, I. A. Perianu*: Structural, Functional Characterization of Ultrasonic Joining for Multiwire Conductors for Automotive Industry (Romania)
- O. Oanca, I. Mitelea, I. Bordeasu, C. Ghera*: Reduction of Cavitation Erosion of the Bronze CuAl10Ni5Fe2. 5Mn1 by Laser Remelting Treatment (Romania)

D. R. Pascu, R. M. Buzdugan, A. V. Bîrdeanu, D. Tîhanov, E. F. Binchiciu: Structural Hardening of Excavator Teeth Used in Exploitation of Magmatic Rocks (Romania)

A. Perescu, L. Bereteu, D. Simoiu, E. Nyaguly: Nondestructive Method for the Determination of the Elastic Properties of Welded Aluminum Plates (Romania)

A. Perianu, I. Mitelea, V. A. Șerban: Physical And Geometrical Quality Of X2CrNi18-9 Stainless Steel Surfaces Cut With Abrasive Waterjet. Work hardening of marginal layer (Romania)

I. Rosenthal, M. Nahmany, A. Stern, N. Frage: Structure, Mechanical Properties of AlSi10Mg Fabricated by Selective Laser Melting Additive Manufacturing (SLM-Am) (Israel)

L. C. Salcianu, I. Bordeășu, I. Mitelea, C. Craciunescu: Effect of solution treatment temperature upon the cavitation erosion resistance of X5CrNi18-10 stainless steel (Romania)

L. C. Salcianu, I. Bordeășu, I. Mitelea, L. M. Micu: Mechanical Hardening, Resistance to Cavitation Erosion of the Austenitic Stainless Steels with Varying Proportions of Delta Ferrite (Romania)

C. Sosdean, L. Marsavina, G. De Schutter: Damage of Reinforced Concrete Structures due to Steel Corrosion (Romania)

E. Stanciu, D. Frunzaverde, G. R. Gillich, I. Negru, M. Tufoi: About the Influence of Butt Weld Joints Geometry on the Damage Detection Process (Romania)

C. Szuhaneck, T. Fleser: The evaluation of different types of welding in the orthodontic expanders (Romania)

B. F. Toma, I. Ionita, D. A. Gheorghiu, L. Eva, C. Bejinariu, S. L. Toma: Influence of Process Parameters, Geometry of the Spraying Nozzle on the Properties of Titanium Deposits Obtained in Wire Arc Spraying (Romania)

V. Verbițchi, L. Boțilă, C. Ciuca, A. Kostov, A. Milosavljevic, R. Todorovic: Improving a Brazed Joint Structure, with a New Ecological Brass (Romania)

O. R. Virlan, C. Rontescu, D. T. Cicić, I. M. Vasile: Reconditioning of Crankshaft in the Automotive Industry by Using WIG Welding (Romania)