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Nota di contenuto	Structural Integrity of Welded Structures; Preface, Committees, Reviewers and Sponsors; Table of Contents; Study of Used Rolls Profile Influence on the Quality of Hot Rolled Metal; State Analysis and Integrity of Welded Structures of the Upper Ring of the Turbine Runner Guide Vane Apparatus of Hydroelectric Generating Set A6 on Hydro Power Plant Djerdap 1; Brazing of Aluminum Bimetallic Sheets in the Design of Heat Exchangers; Investigation of the Repair Welding Technology Using Ni Base Electrode Modeling of Heat Transfer in Pipeline Steel Joint Performed by Submerged Double-Arc Welding ProcedureStructural and Mechanical Characterization of Hard Layers Obtained by Plasma Jet Thermal Spraying; Experimental Results on Micrometric Profile of Substrate and Thickness and Roughness of Deposited Layers through Thermal Spraying; Technological Development Perspectives and Experimental Results of MIG Welding Soldering; Technological Characteristics of a Dual-Phase Steel with 0.09% C and 1.90% Mn Obtained by Intercritical Quenching Research of Combined Process "Rolling-Pressing" Influence on the Microstructure and Mechanical Properties of AluminiumThe Comparative Analysis of the Concentration of Microparticles during

Mechanized MAG Welding Using Cored Wires; The Comparative Analysis of Gas Emissions during Mechanized MAG Welding Using Cored Wires; Determination and Analysis of the Dynamic Loaded Screws by Structural Analysis, Fractography and Numerical Simulation; Computer Simulation Paradigm Regarding the Structure and Mechanical Characteristics of Human Long Bones  
Studies on the Material Anisotropy Influence in Case of Sheets Made From Magnesium Alloy AZ31B on the Stress Concentration Factor in the Presence of a Circular Concentrator  
A Potential Biodegradable Metallic Material with Shape Memory Effect Based on Iron; Determination of the Elastic Modulus of Hydroxyapatite Doped with Magnesium through Nondestructive Testing; Comparative Assessment of Composite Materials Performance Subjected to Fillet and Butt Welding; Determination of some Mechanical Characteristics by Vibration Testing of Welded Structures with Tubular Wire  
Vibration Tests at Thin Stainless Steel Sheets Joined by CMT Pulse with CuSi3 Filler Material for Determination of the Elasticity Modulus  
Quality Requirements for the Design, Fabrication and Repair of Welded Vessels; Optimization of the Electrode Processing Methodology for Resistance Spot Welding of Aluminium; Crashing Behaviour Analysis of TWB Tubular Structures with Different Cross-Sections; Some Aspects Regarding the Analysis of Straight Rods with Polygonal Cross Section Subjected to Torsion  
The Improvement of the Physical and Mechanical Properties of Steel Deposits Obtained by Thermal Spraying in Electric Arc

Sommario/riassunto

The aim of special volume was to gather the current knowledge from researchers from institutes and universities from different countries on actual topics of structural integrity of welded structures from the welders' point of view as well as that of the material testing specialists. A particular attention was concentrated on practical problems coming from the industry. The volume includes 33 scientific papers representing the results obtained in the research and development activities within institutes and universities from Germany, Hungary, Kazakhstan, Romania and Serbia. The topics covered are