Record Nr. UNINA9910806808703321 Experimental stress analysis 51: selected, peer reviewed papers from **Titolo** the 51st Annual of the International Scientific Conference on Experimental Stress Analysis (EAN 2013), June 11-13, 2013, Litomerice, Czech Republic / / edited by Alena Petrenko Pubbl/distr/stampa Durnten-Zurich, Switzerland:,: Trans Tech Publications,, 2014 ©2014 **ISBN** 3-03826-358-3 Descrizione fisica 1 online resource (428 p.) Collana Applied Mechanics and Materials, , 1662-7482;; Volume 486 Altri autori (Persone) PetrenkoAlena Disciplina 620.112 Soggetti Strength of materials Materials - Testing Strains and stresses Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references at the end of each chapters and indexes. Experimental Stress Analysis 51; Preface, Committees and Sponsors; Nota di contenuto Table of Contents; Chapter 1: Stress Analysis in Metal and Composites; Study of Residual Stress Surface Distribution on Laser Welded Steel Sheets; Non-Destructive Inspection of Surface Integrity in Milled Turbine Blades of Inconel 738LC; Mathematical Model of the Experimental Drilled Hole Imperfections Influence on the Stress State Identification for the ""Hole Drilling Strain-Gauge Method"" Application; Distribution of Stress around the Graphitic Particles in Cast Iron Microstructure Implementation of Correction Coefficients Relevant for Photoelastic Coatings into the PhotoStress SoftwareMethod of Investigation of the Stress-Strain State of Surface Layer of Machine Elements from a Sintered Nonuniform Material: The Use of Modan 3D in Experimental Modal Analysis: Investigation of Long-Term Mechanical Response of Rubber; Memorization and other Transient Effects of ST52 Steel and its FE Description; An Effect of Surface Laser Hardening on Deformations and Fatigue Properties of 42CrMo4 Steel Specimens

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Possibility of Application of the Simulation Based Reliability Assessment Method in Modeling of StructuresQUALISYS System Applied to Industrial Testing; The Knowledge Acquired by Using of Optical Methods by Strain Fields Investigation; Residual Stress Investigations of Electron Beam Welds on Samples Prepared by Reconstitution Method; Determine Parameters for Double-K Model at Three-Point Bending by Application of Acoustic Emission Method; Numerical and Experimental Research of Design Optimization of Baths for the Production of Nanofibers by the Electrospinning

Analysis of a Dynamic Response of a Car Door Impact into the Lock

Sommario/riassunto

Collection of selected, peer reviewed papers from the 51st Annual of the International Scientific Conference Experimental Stress Analysis (EAN 2013), June 11-13, 2013, Litomerice, Czech Republic. The 69 papers are grouped as follows: Chapter 1: Stress Analysis in Metal and Composites; Chapter 2: Experimental Methods and Stress Analysis in Building Materials Scientists and engineers from across Eastern Europe explore the experimental analysis of stress in metals and composite and in building materials. The 69 papers include discussions of investigating the stress-strain state of the surface lay