Neutron diffraction measurements of residual stress and mechanical testing of pressure sintered metal-ceramic composite systems

Simulative investigations of the influence of surface indentations on residual stresses on inner raceways for roller element bearings

Characterisation of the effect of corrosion on the residual stresses in girth weld pipe using ultrasonic calibrated with strain-relieving measurement techniques

The role of intergranular stresses in plastic deformation of polycrystalline materials studied using diffraction and self-consistent model

Residual Stresses in Additively Manufactured Stainless Steels Parts Measured by Neutron Diffraction

Numerical approach for determining cyclic durability of autofrettaged components taking into account plasticity and temperature effects

Evaluation of Triaxial Stress State by X-ray Diffraction incorporating d0 Optimization

The effects of residual stress on elastic-plastic fracture: two diffraction studies

Machining-induced Surface Residual Stress Prediction Based on Cutting Action Decomposition

Residual Stresses in Dengeling-Treated Aluminum Alloy AA7050

Comparison between the value of "cosα" method and the value of "sin2Ψ" method

Extension of the Deep-Hole Drilling method for the measurement of in-plane and out-of-plane residual stresses in composite laminates

The residual stress effect on the Shape Memory Polymers

Microstructure and Residual Stress Distribution of Ni-Ti Composite Coatings by Electrodeposition

Combining sectioning method and X-ray diffraction for evaluation of residual stresses in welded high strength steel components

In-vitro investigation of air plasma sprayed Hydroxyapatite coatings by means of diffraction

A Direct Approach to In-Plane Stress Separation using Photoelastic Ptychography

Residual stresses in modelling fatigue lifetime of gas nitrided iron-based alloys

Evaluation of the Directionality of Residual Stress using Instrumented Indentation Test (IIT)

Challenges in the calculation of residual stresses in thick walled components

Boron steel resistance spot weld: residual strain measurement and data input for quasi-static destructive finite element modelling

Influence of incident and diffracted beam radii on residual stress analysis

Residual stress states after Piezo Peening Treatment at cryogenic and elevated temperatures predicted by FEM using suitable material models

Consideration of tool chamfer for realistic application of the incremental hole-drilling method

Numerical simulation of residual stresses induced by weld repair in a stainless steel pipe with considering influences of initial fabrication weld

Analysis of the residual stress in ARMOX 500T armour steel and numerical study of the resultant ballistic performance

Analysis of internal residual stress of ME21 magnesium alloy extruded sheets by short-wavelength X-ray diffraction

Through thickness residual stress and microstructural mapping of AA7085-T7452 die forging

Residual stress – fatigue crack interactions by high resolution synchrotron X-ray stress field mapping

Bragg-edge neutron strain tomography through boundary displacement reconstruction

Monitoring Martensitic Transformation and The Strengthening Behavior during Tensile Deformation in TRIP Steel using Neutron Diffraction

Effect of thermal and mechanical loadings on the residual stress field in a nickel based superalloy using X-ray Laue microdiffraction and conventional X-ray measurements

Multiaxial fatigue assessment of the welded tubular joints considering the effect of welding residual stresses

Evaluation of residual stress determinations conducted with laser ablation and optical displacement measurement

Study of Residual Stresses on DP600 Steel Welded by Different Processes

Recent Instrumentation Upgrades on the Residual Strain/Stress Diffractometer at NPI-Řež