

Publications 1998

Bohne, C.; Pyzalla, A.; Reimers, W.; Heitkemper, M.; Fischer, A.:

Influence of rapid heat treatment on microstructure and residual stresses of tool steels

European Conference on Laser Treatment of Materials ECLAT, Mordike, B.L. (Hrsg.), MAT INFO Werkstoff-Informationsgesellschaft, (1998), pp. 183-188

Brusch, G.; Reimers, W.:

Evaluation of residual stresses in the surface region and in the bulk of materials by high energy X-ray diffraction

Proc. of the Fifth Intl. Conf. on Residual Stresses ICRS-5, Vol. 1, Ericsson, T.; Odén, M.; Andersson, A. (Hrsg.), Linköping University, Sweden, (1998), pp. 557-562

Brückner U., Epishin A., Link T., Dressel K.:

The influence of the dendritic structure on the γ/γ' lattice misfit in the single-crystal nickel-base superalloy CMSX-4

Materials science & engineering A 247, (1998), pp. 23-31,

Genzel, C.:

Non-destructive analysis of residual stress gradients $s_{ij}(z)$ in the near-surface region by diffraction methods-problems and attempts at their solution

Proc. of the Fifth Intl. Conf. on Residual Stresses ICRS-5, Vol. 1, Ericsson, T.; Odén, M.; Andersson, A. (Hrsg.), Linköping University, Sweden, (1998), pp. 514-521

Genzel, C.; Reimers, W.:

A study of X-ray residual stress gradient analysis in thin layers with strong fibre texture - I. evaluation of the stress factors F_{ij}

phys. stat. sol. (a) 165, (1998), pp. 347-360

Genzel, C.; Reimers, W.:

A study of X-ray residual stress gradient analysis in thin layers with strong fibre texture - II. examples

phys. stat. sol. (a) 166, (1998), pp. 751-762

Gnäupel-Herold, T.; Reimers, W.:

Residual stresses in oxide scales on nickel- and TiAl-substrates

Proc. of the Fifth Intl. Conf. on Residual Stresses ICRS-5, Vol. 1, Ericsson, T.; Odén, M.; Andersson, A. (Hrsg.), Linköping University, Sweden, (1998), pp. 952-957

Link T., Epishin A., Brückner U.:

23. Moiré fringes for misfit measurements at incoherent γ/γ' -interfaces of nickel-base superalloys

Scripta materialia 39, no.10, (1998), pp. 1463-1469

Müller, A.; Gnäupel-Herold, T.; Reimers, W.:

Phase specific strain and stress distribution in a monocrystalline nickelbased superalloy after high temperature deformation

Proc. of the Fourth Europ. Conf. on Residual Stresses ECRS4, Vol. 2, Denis, S.; Lebrun, J.-L.; Bour-niquel, B.; Marral, M.; Flavenot, J.-F. (Hrsg.), Cluny en Bourgogne, France, (1998), pp. 931-940

Pyzalla, A.:

Mikroeigenspannungen im Gefüge

Hartlegierungen und Hartverbundwerkstoffe - Gefüge, Eigenschaften, Bearbeitung, Anwendung, Berns, H. (Hrsg.), Ruhr-Universität Bochum, (1998), pp. 73-86

Pyzalla, A.; Reimers, W.:

Eigenspannungsanalysen an Werkstoffen und Bauteilen

Materialprüfung 40, (1998), pp. 303-309

Pyzalla, A.; Reimers, W.; Pöhlandt, K.:

Residual stresses and texture evolution in cold extrusion of full and hollow steel bodies

Proc. of the Fifth Intl. Conf. on Residual Stresses ICRS-5, Vol. 1, Ericsson, T.; Odén, M.; Andersson, A. (Hrsg.), Linköping University, Sweden, (1998), pp. 58-63

Pyzalla, A.; Duz, V.A.; Gavriljuk, V.G.; Petrov, Y.; Ussov, Y.:

Residual microstresses and dislocation interactions in PMMCs

Proc. of the Fourth Europ. Conf. on Residual Stresses ECRS4, Vol. 2, Denis, S.; Lebrun, J.-L.; Bour-niquel, B.; Marral, M.; Flavenot, J.-F. (Hrsg.), Cluny en Bourgogne, France, (1998), pp. 873-882

Pyzalla, A.; Genzel, C.; Reimers, W.:

Neutron residual stress analysis in PMMCs

Proc. of the Fourth Europ. Conf. on Residual Stresses ECRS4, Vol. 2, Denis, S.; Lebrun, J.-L.; Bour-niquel, B.; Marral, M.; Flavenot, J.-F. (Hrsg.), Cluny en Bourgogne, France, (1998), pp. 1033-1041

Reimers, W.:

Analysis of residual stress distributions using diffraction methods

Proc. of the Fourth Europ. Conf. on Residual Stresses ECRS4, Vol. 1, Denis, S.; Lebrun, J.-L.; Bour-niquel, B.; Marral, M.; Flavenot, J.-F. (Hrsg.), Cluny en Bourgogne, France, (1998), pp. 33-54

Reimers, W.; Achmus, C.; Wohlfahrt, H.:

Eigenspannungen in festgewalzten Bauteilen

Materialprüfung 40, (1998), pp. 88-91

Reimers, W.; Broda, M.; Bruschi, G.; Dantz, D.; Liss, K.-D.; Pyzalla, A.; Schmackers, T.; Tschentscher, T.:

Evaluation of residual stresses in the bulk of materials by high energy synchrotron diffraction

J. of Nondestructive Evaluation 17, no. 3, (1998), pp. 129-140

Schmackers, T.; Reimers, W.; Baron, H.U.; Cosack, T.:

Residual stresses in zirconia thermal barrier coatings due to strongly inhomogeneous temperature distributions

Conf. Materials for Advanced Power Engineering, Lecomte-Bechus, J.; Schubert, F.; Ennis, P.J. (Hrsg.), III Liège, (1998), pp. 1647-1656