

Poster Session 1

Pure metals and alloys

Tuesday afternoon 16:20 p.m.-19:20 p.m.

1. SIMULATION OF MECHANICAL RESPONSE AND INTERNAL FRICTION BY POINT DEFECTS

Y. Kogure, T. Kosugi, T. Nozaki, M. Doyama

2.

3. EFFECTS OF TRAINING TEMPERATURE ON DAMPING CAPACITY IN THERMAL CYCLED Fe-20 MASS % Mn ALLOY

Y. Watanabe, H. Sato, Y. Nishino and I. S. Kim

4. BULK AND COATED MATERIALS SHEAR MODULUS DETERMINATION BY MEANS OF TORSIONAL RESONANT METHOD

P. Gadaud, S. Pautrot, X. Mihet

5. EFFECTS OF ϵ MARTENSITE AND DISLOCATION BEHAVIOR BY THERMOMECHANICAL TREATMENT ON Fe-Cr DAMPING ALLOY

Yuhei Nishimura, Gwang-Ho Kim, Yoshimi Watanabe, Hisashi Sato, Yoichi Nishino, Hae-Ryong Jung, Chang-Yong Kang and Ick-Soo Kim

6. AGEING EFFECTS AFTER HEAT TREATMENT IN HIGH DAMPING Cu-Al-Mn SHAPE MEMORY ALLOYS

Agnieszka Mielczarek, Nils Kopp, Werner Riehemann,

7. ANOMALOUS INTERNAL FRICTION PHENOMENON ASSOCIATED WITH THE THERMOELASTIC MARTENSITIC TRANSFORMATION IN A Cu-Al-Ni-Mn-Ti ALLOY

F. S. Han, C. L. Gong

8. MAGNETOMECHANICAL DAMPING IN POLY- AND SINGLE Ni-Fe-Ga CRYSTALS

M. L. Corró^a, S. Kustov^a, E. Cesari^a, Y. I. Chumlyakov^b

9. LINEAR AND NON-LINEAR ULTRASONIC ANELASTICITY OF B19' MARTENSITIC PHASE IN Ni-Ti AND Ni-Ti-Cu ALLOYS

S. Golyandin^a, K. Sapozhnikov^a, S. Kustov^b, J. Van Humbeeck

10. DEPENDENCE ON COMPOSITION OF THE INTERNAL FRICTION OF Ni_{100-x}Ti_x ALLOYS CONTAINING HYDROGEN

E. Villa, A. Tuissi B. Coluzzi, A. Biscarini, G. Mazzolai, F. M. Mazzolai

11. REACTION OF HYDROGEN WITH THE LAVES PHASE (C14) TiCr_{1.78-x}Mn_x COMPOUND

F. Agresti, S. Lo Russo, A. Maddalena and G. Principi, G. Mazzolai, B. Coluzzi, A. Biscarini, F. M. Mazzolai and A. Tuissi

12. THE CRYSTALLIZATION PROCESS OF Mg-Ni-Fe ALLOYS

R. Cantelli, O. Palumbo, A. Paolone, G. Principi, S. Lo Russo

13. THE LITHIUM-NITROGEN-HYDROGEN SYSTEM AS A CANDIDATE FOR SOLID STATE HYDROGEN STORAGE

P. Rispoli, A. Paolone, O. Palumbo, R. Cantelli

14. STRUCTURAL PHASE TRANSITION STUDY OF FePt ALLOYS USING AB INITIO CALCULATION.

M. Imaizumi, C. A. Soufen, C. A. F. Pintão, L. C. Varanda, M. Jafelicci Jr.

15. INTERNAL FRICTION AND MAGNETIC PROPERTIES OF THE THERMALLY AGED Fe-1 wt.% Cu ALLOY

Y. Kamada, Y. Nishino, S. Tamaoka, N. Ide, S. Hosoi, H. Kikuchi, S. Kobayashi

16. HYDROGEN RELATED PEAKS IN Cu-(LaNi_{4.7}Al_{0.3})

D. J. Cuscuela, H. R. Salva, A. A. Ghilarducci, F.C. Ruiz

17. INTERNAL FRICTION IN MARTENSITIC CARBON STEELS

J. J. Hoyos, A. Ghilarducci, H. Salva, C. A. Chaves, J.M. Vélez .

18. SNOEK-KÖSTER-LIKE RELAXATION IN MARTENSITIC CARBON STEELS

R. Martin, I. Tkalcec, D. Mari, R. Schaller

19. STRUCTURE, ELASTICITY, MICRO- AND MACROPLASTISITY OF AL-SI ALLOYS OBTAINED FOR DIFFERENT SOLIDIFICATION CONDITIONS

S. P. Nikanorov

20. HIGH TEMPERATURE INTERNAL FRICTION IN Fe-Al AND Ti-Al INTERMETALLICS

P. Simas, J. San Juan, M. L. Nó

21. HIGH-TEMPERATURE DAMPING BEHAVIOUR OF Ti₆Al₄V-SiC_f COMPOSITE

P. Deodati, R. Donnini, R. Montanari, C. Testani

22. SINGLE CRYSTAL PWA 1483 SUPERALLOY: DISLOCATION REARRANGEMENT AND DAMPING PHENOMENA

P. Deodati, R. Montanari, O. Tassa, N. Ucciardello

23. LOW TEMPERATURE ANELASTICITY IN Ti₆Al₄V ALLOY AND Ti₆Al₄V-SiC_f COMPOSITE

S. Amadori, E. Bonetti, P. Deodati, R. Donnini, R. Montanari, L. Pasquini

24. MECHANICAL SPECTROSCOPY OF WHITE GOLD ALLOYS

Tkalcec , J. Hennig, R. Schaller

25. ANELASTICITY IN Cu-Al SINGLE CRYSTALS AT ELEVATED TEMPERATURES

S. Belhas, C. Belamri and A. Rivière

26. ANELASTICITY IN Fe-Al-Cr ALLOYS AT ELEVATED TEMPERATURES

A. Rivière, I.S. Golovin

27. ANELASTIC SPECTROSCOPY IN Ti ALLOYS USED AS A BIOMATERIAL

R. Grandini, L. H. de Almeida, R. Caram Jr.

28. EFFECT OF INTERSTITIAL SOLUTES ON ANELASTIC RELAXATION IN Ti-13Nb-13Zr ALLOY

O. Florêncio, P. S. Silva Jr, R. Ribeiro, J. M. Chavez, F. H. Sá , F. X. Melo, S. G. Schneider

29. INTERNAL FRICTION IN MELT SPUN Nd₆₀Fe₃₀Al₁₀ MAGNETIC NANOSTRUCTURES

H. R. Salva, S. E. Urreta, L. M. Fabietti, A. A. Ghilarducci

30. EFFECT OF PLASTIC DEFORMATION ON ANELASTIC MECHANICAL LOSSES IN MULTICOMPONENT SUBSTITUTIONAL AUSTENITIC ALLOYS

M. Ivanchenko, Y. Yagodzinsky and H. Hänninen

31. ANELASTIC SPECTROSCOPY STUDY OF IRON CARBONATE SCALES FROM CO₂ CORROSION OF STEEL

O. Palumbo, A. Paolone, P. Rispoli, R. Cantelli, G. Cannelli S. Nesic, B. J. Molinas, P. P. Zonta

32. LOW-TEMPERATURE INTERNAL FRICTION PEAK IN Cu-Nb NANOSTRUCTURED FIBER COMPOSITE

P. P. Pal-Val, M. A. Tikhonovsky, V. D. Natsik, L. N. Pal-Val, E. N. Vatazhuk, A. A. Kupriyanov

33. KINETICS OF THE LOW-TEMPERATURE STRUCTURE TRANSFORMATION IN In-Cd SOLID SOLUTIONS

P. P. Pal-Val, L. N. Pal-Val, A. A. Ostapovets, P. Vanek

34. ANELASTICITY OF POLYCRYSTALLINE INDIUM

K. Sapozhnikov, S. Golyandin, S. Kustov

35. CHANGES OF COERCIVITY HARDNESS AND AMPLITUDE DEPENDENT DAMPING IN ELECTRODEPOSITED NANO-CRYSTALLINE NICKEL DURING GRAIN GROWTH

A. Flejszar, O. Çavdarli, G. Vidrich, A. Mielczarek, W. Riehemann