## *Journal of Materials Research* Articles in the December 1991 Issue (Vol. 6, No. 12)

A Kinetic Study of the Phase Transformations in  $Al_2O_3$  and  $Na_2O \cdot 6Al_2O_3$  by a Combined Use of <sup>27</sup>Al MAS NMR Spectroscopy and X-ray Diffraction: Importance of Nucleation, by S. Prabakar, K.J. Rao, and C.N.R. Rao.

Deformation and Microstructural Changes in SiC Whisker-Reinforced  $\rm Si_3N_4$  Composites, by D.A. Koester, K.L. More, and R.F. Davis.

Deformation of an Extruded Nickel Beryllide Between Room Temperature and 820°C, by G.M. Pharr, S.V. Courington, J. Wadsworth, and T.G. Nieh.

Diffusional Transformation and Structural Relaxation in  $Y_1Ba_2Cu_{3\star}Ni_xO_{7z}$  Compounds, by S.V. Raman, Y.Y. Sun, K. Matsuishi, and X. Quan.

Effect of Tip Radius on Nanoindentation, by C.W. Shih, M. Yang, and J.C.M. Li.

Effects of Process History and Aging on the Properties of Polyimide Films, by D.D. Denton, M.C. Buncick, and H. Pranjoto.

Green's Function for Generalized Hilbert Problem for Cracks and Free Surfaces in Composite Materials, by V.K. Tewary.

Elastic Green's Function for a Bimaterial Composite Solid Containing a Free Surface Normal to the Interface, by V.K. Tewary.

Generalized Plane Strain Analysis of a Bimaterial Composite Containing a Free Surface Normal to the Interface, by V.K. Tewary and R.D. Kriz.

Electron Channeling Patterns of a-axis and c-axis  $YBa_2Cu_3O_{76}$ Thin Films, by K.H. Young, J.Z. Sun, D. Kapolnek, E.J. Tarsa, A. Inam, and B.H.T. Chai.

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Interaction of a Screw Dislocation with a Crack in an Anisotropic Body, by T-Y. Zhang and J.E. Hack.

Optical Properties of HgS and HgS:Co<sup>2+</sup> Crystals, by S-H. Choe, K-S. Yu, J-E. Kim, H.Y. Park, and W-T. Kim.

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Preparation and Structural Characterization of Sputtered CoO, NiO, and  $Ni_{0.5}Co_{0.5}O$  Thin Epitaxial Films, by M.J. Carey, F.E. Spada, A.E. Berkowitz, W. Cao, and G. Thomas.

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Silicon Oxycarbide Glasses II: Structure and Properties, by G.M. Renlund, S. Prochazka, and R.H. Doremus.

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