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By M.N. Shetty

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Authors: Kontsevoi, O. Yu.; Freeman, A. J.; Gornostyrev, Yu. N.;

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The influence of increasing strain rate on the mechanical behavior and deformation substructures in metals and alloys that deform predominately by slip is very

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What strengthening is. Plastic deformation occurs when large numbers of dislocations move and multiply so as to result in macroscopic deformation.

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Materials, Institute of Metal Research, Academia. Sinica wt %_1 is 0.38 C, 1.06 Cr, 0.54 Mn, 0.28 Si, 0.019 S,

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a Multi-disciplinary Materials Research Center and State Key Laboratory for Mechanical Behaviour of the effect of dislocations on the relaxation behavior,

Dislocation - wikipedia, the free encyclopedia

In materials science, a dislocation is a crystallographic defect, or irregularity, within a crystal structure. The presence of dislocations strongly influences many

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Unraveling the mysteries of dislocation formation

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J. J. Gilman and W. G. Johnston, Dislocation and Mechanical Properties of Crystals, Ed. by J. C. Fisher, et al., p. 116, J. Wiley and Sons, New York (1957).

The mechanical behavior and deformation of

The competition between free surfaces and internal grain boundaries as preferential sites for dislocation nucleation during plastic deformation in aluminum

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Coupling of dislocations and precipitates: impact on the mechanical behavior of Al 7xxx alloys at the submicron length scale. Reducing length scale on precipitation

Dislocation density-based constitutive model for

vacancy clusters in the form of stacking fault tetrahedra and/or prismatic dislocation loops that impede the motion of dislocations. The mechanical behaviour

Introduction to dislocations, derek hull, d. j

Chapters 3 to 5 discuss the behavior of dislocations and explain how changes in the The three chapters also discuss the mechanical properties of dislocations.

Simulations of dislocation structure and response

Although there are many experimental determinations of the mechanical behavior, examination of the dislocation behavior in Ni-based alloys is of particular note

Force relations applicable to dislocation-forest

Mechanical Behaviour Force relations applicable to dislocation-forest intersections Force-distance curves are determined for three different dislocation interaction processes Supplementary Material (0) . M. N. Shetty (1) ; J. P. Hirth (1).

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By Mariana Castro in Materials Science. It is devoted to a better understanding of: (i) the mechanical behavior of this steel C S P Si Mn Ni Cr Mo Cu Co V 0.16 0.004 0.008 0.22 1.33 0.76 0.22 0.51 0.07 0.017 60.01 Fig. 1. [52] Rosen eld A, Shetty D. Cleavage fracture of steel in the ductile brittle transition region.

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Influence of Thermomechanical Processing on the Corrosion Behaviour of Aluminium . that the corrosion the increased amount of dislocation and point behaviour of these materials Si 0.45 Fe 0.22 Cu 0.02 Mn 0.03 Mg 0.50 Zn 0.02 Cr 0.03 Ti 0.02 Al 98.71 Figure 1. [9] Pinto, G.M., Jagannath, N., & Shetty, A.N. (2009).

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The thermal behaviour of the grown samples were measured from ambient to 700 C at a .. Shetty MN. Dislocations and mechanical behaviour of materials.

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Department of Metallurgical and Materials Engineering, Federal University of Technology, Akure, PMB 704 utilized as criteria for evaluating the corrosion behaviour of the composites. marked improvement in mechanical properties of Fe Cu Mn Mg Zn Cr Ti Al . dislocations and residual stresses developed during.

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