
Grain Boundaries Interfacial Phenomena Electronic

grain boundary and surface energies of fcc metals - grain boundary and surface energies of fcc metals d. udler and d. n. seidman department of materials science and engineering, northwestern university, evanston, illinois 60208 ~received 1 july 1996! **interfacial energies of five high-angle singular grain boundaries~gb's!** in seven fcc metals—ag, al, au, **modeling of wetting phenomena at grain boundary grooves of ...** - modeling of wetting phenomena at grain boundary grooves of metal/ceramic joints ... modeling of phenomena at grain boundary grooves ... **interfacial diffusion, volume diffusion on either side of the interface, and, interfacial reaction (solution-precipitation).** depending on the physical **grain boundary complexions: the interplay of premelting ...** - interfacial forces. this model produces a systematical spectrum of interfacial phenomena for grain boundaries, including first-order and continuous coupled prewetting and premelting transitions, critical points, multilayer adsorption, layering and roughening, and complete wetting and drying, and it produces a series of grain boundary “phases ... **university of groningen grain boundary phenomena and ...** - of grain boundaries may be reduced significantly by the presence of these ... fig 6.1: interfacial- and grain boundary energy versus temperature. t ... effects of lead and bismuth additions on failure mode 123 6.2.3 grain boundary fracture criteria presumably, grain boundaries crack when the combination of the far-field stress ... **grain boundaries in ultrafine grained materials processed ...** - 1 grain boundaries in ultrafine grained materials processed by severe plastic deformation and related phenomena x. sauvage1, g. wilde2, s.v. divinski2, z. horita3, r.z. valiev4 1-university of rouen, cnrs umr 6634, groupe de physique des matériaux, faculté des **grain boundary phenomena in ndfeb-based hard magnetic alloys** - grain boundary phenomena in ndfeb-based hard magnetic alloys 19 particularly important for the liquid phase sintering [23,24]. the correct experimental measurement of the contact angle is not an easy task. the most accurate measurement of a dihedral contact angle is possible in the experiments with bicrystals [26,27]. **grain boundary energy anisotropy: a review** - called grain boundaries. because the performance and ... there have been several recent review articles surveying grain boundary phenomena [1-5]. the current review is more narrowly focused on the topic of grain boundary energy anisotropy ... removal of material near the grain boundaries reveals the interfacial network, as illustrated in fig ... **(normal) grain growth and size distributions** - phenomena, humphreys & hatherly, elsevier, 2nd ed., 2004 ... **interfacial energies • practical applications: rain-x for ... “streaky” “clear” 5 impact on materials • surface grooving where grain boundaries intersect free surfaces leads to surface roughness, possibly break-up of thin films. ... interfacial phenomena in the oxidation and high ...** - interfacial phenomena in the oxidation and high temperature corrosion of metals and alloys h.j. grabke max-planck-institut fiat eisenforschung gmbh, d-40074 dt~sseldorf, germany ... grain boundaries of the alloys are also of interest; at these grain ... **interfacial phenomena in the oxidation and high temperature corrosion of metals and alloys ... formation of ordered and disordered interfacial films in ...** - formation of ordered and disordered interfacial films in immiscible metal alloys ... grain boundaries interface structure order-disorder phenomena surface segregation complexions ... formation of ordered and disordered interfacial films in immiscible metal alloys ... **grain boundary complexions - apps.dtic** - interfacial states from bulk phases, the term “complexion” has been introduced. ... grain boundary complexion transitions are the root cause of a wide variety of materials phenomena - such as abnormal grain growth, grain boundary embrittlement and activated sintering - that have defied mechanistic explanation for ... grain boundaries ... **interfacial phenomena in gas hydrate systems - pubsc** - interfacial phenomena in gas hydrate systems journal: chemical society reviews ... boundaries, 1 with a minority focus on understanding the ... solid particles that share contact with grain boundaries, which partially bear the geomechanical load; (ii) **a new method for the simulation of alloys: application to ...** - impurity to segregate to grain boundaries and free surfaces dictate impurity effects in fracture. impuri- ties that segregate to grain boundaries but not to free surfaces tend to enhance fracture resistance. an understanding of such interfacial phenomena thus requires a knowledge of not only the structure of the **hydrogen embrittlement of grain boundaries in nickel: an ...** - hydrogen embrittlement of grain boundaries in nickel: an atomistic study shan huang 1, ... theory of interfacial embrittlement. the hydrogen embrittlement effects are quantitatively evaluated in terms of the reduction of ... embrittlement phenomena was attributed to the loss of cohesion of interfaces (between grains, inclusion and matrix, or ...

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