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# Grain Boundary Migration In Metals Thermodynamics Kinetics Applications 2nd Edition

**chapter 5 the mobility and migration of boundaries** - the structure of grain boundaries (chapter 4), and models for grain boundary migration based on boundary structure have been formulated, there is as yet little evidence of quantitative agreement between the models and the experimental results. 5.1.2 the micromechanisms of grain boundary migration **ema5001 lecture 10 grain boundaries & their migration** - ema 5001 physical properties of materials zhe cheng (2016) 10 grain boundaries & their migration grain boundary segregation grain boundary energy is often reduced in alloying solute atoms cause lattice strain solute atoms move to grain boundaries w/ more open structure, lowering strain energy  $\times b$  atom fraction in grain boundary  $\times 0$  **in bcc tungsten effects of interstitial defects on stress ...** - grain boundaries (gbs) are ubiquitous in polycrystalline materials. stress-driven grain boundary migration (gbm) has now been well-accepted as an important mechanism operating in many physical processes such as plastic deformation, grain growth, recrystallization and phase transformations [1-5]. **diffusion induced grain boundary migration - tandfonline** - induced grain boundary migration (digm) is a more recently discovered phenomenon which involves grain boundary migration and grain boundary diffusion as well as certain of the other behaviours noted above. the phenomenon was first identified in a short note by rhines and montgomery! in 1938, and subsequently **on the relationship between grain-boundary migration and ...** - on the relationship between grain-boundary migration and grain-boundary diffusion by molecular-dynamics simulation b. schonfelderlj, p. keblinskil, d. wolf1 and s. r. phillpotl \*materials science division, argonne national laboratory, **grain-boundary migration in the presence of diffusing ...** - philosophicalmagazine, 2001, vol. 81, no. 9, 2243±2269 grain-boundary migration in the presence of diffusing impurities: simulations and analytical models m. indelev, d. j. ... **twin boundary migration and nanocrack generation in ...** - twin boundary migration and nanocrack generation in ultrafine-grained materials with nanotwinned structure . ilya ovid'ko, 1,2,3 alexander sheinerman, 1,2,3 nikolay skiba, 1,2,3 stanislav krasnititskiy, 3 andrei smirnov4 1 department of mathematics and mechanics, . st. petersburg state university, **interconnections: aluminum metallization - stanford university** - about equal to  $d$ , the grain-boundary circuit is interrupted. bamboo structure figure effect of post patterning annealing on the grain structure of the film. with sufficient grain boundary migration a "bamboo structure" may develop. texture: the texture of the polycrystalline film also impacts **simultaneous grain boundary migration and grain rotation** - simultaneous grain boundary migration and grain rotation. the existence of grain rotation during microstructural evolution was first reported from observations of subgrain growth, which resulted in grain coalescence [1-4]. li formulated the rate of grain rotation in terms of a dislocation model in which the interdislocation spacing evolved via **vacancy generation during grain boundary migration** - boundary migration, the total grain boundary area decreases resulting in a flux of point defects to or from the grain boundary. a flux of point defects to or from grain boundaries due to grain boundary migration has been postulated, yet never observed or investigated in detail. a simulation study on abnormal grain growth by srolovitz et al. **experimental observations of stress-driven grain boundary ...** - between individual crystallites, called grain boundaries, act as obstacles to dislocation motion. grain boundaries are widely envisaged to be mechanically static structures, but this report outlines an experimental investigation of stress-driven grain boundary migration manifested as grain growth in nanocrystalline aluminum thin films. **grain size distribution under simultaneous grain boundary migration and grain rotation ...** - grain size distribution under simultaneous grain boundary migration and grain rotation ... the mobility of a grain boundary (experimental measurements as well as molecular dynamics simulations ... grain boundary migration scale the same (i.e. as  $1/r$ ) with respect to grain size, and allow us to explore ... **stress-driven migration of simple low-angle mixed grain ...** - properties and behavior of very simple low-angle grain boundaries, high-angle grain boundaries with special orientations, and twin boundaries [1], the structure and mechanism of migration for a general grain boundary is not well understood. however, if the misorientation between adjoining grains is small, the grain boundary structure is ...

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