

C O N T E N T S

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Distribution Groups C, J

## N O T A T I O N

$A, A', B, B', k, k_0,$ $\alpha, \beta, \beta', \epsilon, \sigma_{00}, \chi$	}	Constants
$b$		Burger's vector
$d$		Mean grain diameter
$G$		Rigidity modulus
$l$		Length of crack
$n$ and $n'$		Number of dislocations
$p$		Hydrostatic pressure
$p_c$		Brittle-ductile transition pressure
$r$		Effective radius of stress field around a dislocation crack
$T$		Temperature
$T_c$		Brittle-ductile transition temperature
$W$		Total energy of crack
$\gamma'$		Effective surface energy of crack
$\zeta$		$= 16 G\gamma'/M(1 - \nu) k_0$
$\theta$		Angle between crack and slip plane
$\lambda$		Constant $= \alpha k_0$
$\nu$		Poisson's ratio
$\xi$		Constant $= \alpha\sigma_{00}$
$\sigma$		Applied tensile stress
$\sigma_f$		Fracture stress
$\sigma_0$		Frictional stress opposing the motion of a free dislocation