

C O N T E N T S

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Distribution Groups C, J

N O T A T I O N

$\left. \begin{array}{l} A, A', B, B', k, k_0, \\ \alpha, \beta, \beta', \epsilon, \sigma_{00}, X \end{array} \right\}$	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
γ'	Effective surface energy of crack
ζ	$= 16 G\gamma'/M(1 - \nu) k_0$
θ	Angle between crack and slip plane
λ	Constant $= \alpha k_0$
ν	Poisson's ratio
ξ	Constant $= \alpha\sigma_{00}$
σ	Applied tensile stress
σ_f	Fracture stress
σ_0	Frictional stress opposing the motion of a free dislocation