

PPR UEL Nomenclature

Paper	Fortran	Description
B_c	Bc	global displacement-separation relation matrix
f_{coh}	Fc	internal force vector of a cohesive surface element
K_{coh}	Sc	tangent matrix of a cohesive surface element
m, n	m, n	nondimensional exponents in the PPR model
N	ShapeN	shape functional matrix
T_c	T	cohesive traction vector
u	U	displacement field
\tilde{u}	U_1	nodal displacement vector in the local coordinates
α, β	alph, beta	shape parameters in the PPR model
Γ_n, Γ_t	Gam_n, Gam_t	energy constants in the PPR model
δ_n, δ_t	dn, dt	normal and tangential final crack opening widths
$\Delta_{n_{max}}, \Delta_{t_{max}}$	deln_max, delt_max	maximum normal and tangential separations in the loading history
λ_n, λ_t	ln, lt	initial slope indicators in the PPR model
Λ	R	coordinate transformation matrix
σ_{max}, τ_{max}	Tn_m, Tt_m	normal and tangential cohesive strengths
ϕ_n, ϕ_t	Gn, Gt	normal and tangential fracture energies