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LIST OF SYMBOLS AND ABBREVIATIONS

ϕ	=	Friction angle
τ	=	Joint shear strength
ϕ_A	=	The estimate basic friction angle
ϕ_b	=	Basic friction angle
σ_c	=	Uniaxial compressive strength
σ_j	=	Uniaxial compressive strength
σ_n	=	Normal stress
τ_r	=	Shear strength of the intact material
ϕ_r	=	Residual friction angle
α_s	=	The angle at which sliding commences
σ_t	=	Tensile strength
a_s	=	The proportion of the discontinuity surface
c	=	Cohesive strength
d_n	=	The dilatation
E	=	Modulus of elasticity
i	=	Regular teeth inclination
JCS	=	Joint wall compressive strength
JRC	=	Joint roughness coefficient
UCS	=	Uniaxial compressive strength
V	=	The dilation rate