NOTATIONS

\( \sigma_0 \) = Pre-stress
\( \sigma_1 \) = Major principal stress
\( \sigma_2 \) = Intermediate principal stress
\( \sigma_3 \) = Minor principal stress
\( \sigma_n \) = Normal stress
\( \sigma_0 \) = Normal tangential stress
\( \sigma_r \) = Radial compressive stress
\( \sigma_{oct} \) = Octahedral stress
\( \sigma_{T_t,T_0} \) = Maximum tensile stress
\( \sigma_{yp} \) = Yield point stress
\( E \) = Young's modulus of elasticity
\( \epsilon_1 \) = Tensile bending strain at outer fibre
\( \epsilon_2 \) = Compressive bending strain at outer fibre
\( \nu \) = Poisson's ratio
\( \tau \) = Shear stress
\( M_b \) = Bending moment
\( r_i \) = Internal radius of the ring or cylinder
\( r_o \) = External radius of the ring or cylinder
\( r_d \) = Radius of disc
\( r_p \) = Radius of arc under uniform pressure
\( q \) = Radii ratio (Inner radius to outer radius)
\( P,F \) = Applied force or load
\( P_i \) = Internal hydrostatic stress
\( t_d,t \) = Thickness of the disc
\( I \) = Moment of inertia
\( T_0 \) = Uniaxial tensile strength
\( C_o \) = Uniaxial compressive strength
\( \lambda \) = A Material constant