NOMENCLATURE

x,y,z	Rectangular coordinates
r, θ, ϕ	Polar coordinates
r, θ, z	Cylindrical coordinates
α, β, γ	Orthogonal curvilinear coordinates
ξ, η	Elliptical coordinates
X,Y,Z	Components of a body force per unit volume
$\bar{X},\bar{Y},\bar{Z}$	Components of a distributed surface force per unit area.
$(\sigma_x)_T,(\sigma_y)_T,(\sigma_z)_T$	Normal components of stress parallel to x-, y- and z- axes in the presence of temperature.
$(\hat{xx})_T(\hat{yy})_T,(\hat{zz})_T$	Normal components of stress parallel of x-, y- and z- axes in the presence of temperature.
$(\hat{rr})_T,(\hat{\theta\theta})_T,(\hat{\phi\phi})_T$	Normal components of stress in polar coordinates in the presence of temperature.
$(\hat{rr})_T,(\hat{\theta\theta})_T,(\hat{zz})_T$	Normal components of stress in cylindrical coordinates in the presence of temperature.
$(\hat{\alpha\alpha})_T,(\hat{\beta\beta})_T$	Normal components of stress in curvilinear coordinates in the presence of temperature.
$(\hat{\xi\xi})_T,(\hat{\eta\eta})_T$	Normal components of stress in elliptical coordinates in the presence of temperature.

$(\sigma_x)_c,(\sigma_y)_c,(\sigma_z)_c$	Normal stress components in cartesian coordinates in the absence of temperature.
$(\hat{xx})_c,(\hat{yy})_c,(\hat{zz})_c$	Normal stress components in cartesian coordinates in the absence of temperature.
$(\hat{rr})_c,(\hat{\theta\theta})_c,(\hat{\phi\phi})_c$	Normal components of stress in polar coordinates in the absence of temperature.
$(\hat{rr})_c,(\hat{\theta\theta})_c,(\hat{zz})_c$	Normal components of stress in cylindrical coordinates in the absence of temperature.
$(\hat{\alpha\alpha})_c,(\hat{\beta\beta})_c$	Normal components of stress in curvilinear coordinates in the absence of temperature.
$(\hat{\xi\xi})_c,(\hat{\eta\eta})_c$	Normal components of stress in elliptical coordinates in the absence of temperature.
$(\sigma_{xy})_T,(\sigma_{xz})_T,(\sigma_{zy})_T$	Shearing stress components in rectangular coordinates in the presence of temperature.
$(\hat{xy})_T,(\hat{yz})_T,(\hat{zx})_T$	Shearing stress components in rectangular coordinates in the presence of temperature.
$(\hat{r\theta})_T,(\hat{\theta\phi})_T,(\hat{r\phi})_T$	Shearing stress components in polar coordinates in the presence of temperature.
$(\hat{r\theta})_T,(\hat{\theta z})_T,(\hat{zr})_T$	Shearing stress components in cylindrical coordinates in the presence of temperature.
$\sigma_{\rho\rho},\sigma_{\theta\theta},\sigma_{zz},\sigma_{\rho z}$	Stress tensor in cylindrical system.
$(\hat{\alpha\beta})_T,(\hat{\beta\gamma})_T,(\hat{\gamma\alpha})_T$	Shearing stress components in curvilinear coordinates in the presence of temperature.
$(\hat{\xi\eta})_T,(\hat{\eta z})_T,(\hat{\xi z})_T$	Shearing stress components in elliptical coordinates in

	the presence of temperature.
$(\sigma_{xy})_c, (\sigma_{xz})_c, (\sigma_{zy})_c$	Shearing stress components in cartesial soordinates in the absence of temperature.
$(\hat{r\theta})_c, (\hat{\theta\phi})_c, (\hat{r\phi})_c$	Shearing components of stress in polar coordinates in the absence of temperature.
$(\hat{r\theta})_c, (\hat{\theta z})_c, (\hat{zr})_c$	Shearing components of stress in cylindrical coordinates in the absence of temperature.
$(\hat{\alpha\beta})_c, (\hat{\beta\gamma})_c, (\hat{\gamma\alpha})_c$	Shearing components of stress in curvilinear coordinates in the absence of temperature.
$(\hat{\xi\eta})_c$	Shearing components of stress in elliptical coordinates in the absence of temperature.
u_T, v_T, w_T	Components of displacements in the presence of temperature.
$u_\alpha, u_\beta, u_\gamma$	Components of displacements in curvilinear coordinates.
u_r, u_θ, u_ϕ	Components of displacements in polar coordinates.
u_r, u_θ, u_z	Components of displacements in cylindrical coordinates.
u_c, v_c, w_c	Components of displacements in the absence of temperature.
$(\varepsilon_x)_T, (\varepsilon_y)_T, (\varepsilon_z)_T$	Components of strain in the presence of temperature in the x,y,z directions respectively.
$(\varepsilon_x)_c, (\varepsilon_y)_c, (\varepsilon_z)_c$	Components of strain in the absence of temperature in the x,y,z directions respectively.
$\varepsilon_r, \varepsilon_\theta, \varepsilon_\phi$	Components of strain in polar coordinates.
$\varepsilon_r, \varepsilon_\theta, \varepsilon_z$	Components of strain in cylindrical coordinates.

E	Young's modulus.
G, μ	Modulus of elasticity / Modulus of rigidity.
σ, γ, η	Poission's ratio.
$\mu = G, \quad \lambda = \frac{\nu E}{(1+\nu)(1-2\nu)}$	Lame's constants.
ϕ	Stress function / Displacement potential function.
t	Time
T_0	Absolute temperature
T	Temperature
α / α_t	Coefficients of linear thermal expansion.
E_1, E_2	Young's moduli in the x and y directions respectively.
K_2	Stress intensity factor at the boundary of the extemally cracked retion.
K_a	Stress intensity factors at the boundaries r=a.
K_b	Stress intensity factors at the boundaries r=b.
ν_1	Ratio of the contraction parallel to x axis to the extension parallel to y axis.
ν_2	Ratio of the contraction parallel to y axis to the extension parallel to x axis.
α_1	Coefficient of linear thermal expansion in the x axis.
α_2	Coefficient of linear thermal expansion in the y axis.
α_3	Coefficient of linear thermal expansion in the z axis.
φ	Love function.
$\delta(t)$	Dirac - delta function.
$H(\eta)$	Heavyside unit function.

F	Hypergeometric function.
J_0	Bessel function of first kind and zero order.
I_1	Bessel function of second kind and first order.
$\theta(r,z)$	Temperature function.