

# Erratum: “Analytical Solution for the Lifetime of a Spherical Shell of Arbitrary Thickness Under the Pressure of Corrosive Environments: The Effect of Thermal and Elastic Stresses” [ASME J. Appl. Mech., 2021, 88, p. 061004; DOI: 10.1115/1.4050280]

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This note is to correct errata in the paper “Analytical Solution for the Lifetime of a Spherical Shell of Arbitrary Thickness Under the Pressure of Corrosive Environments: The Effect of Thermal and Elastic Stresses” published in Journal of Applied Mechanics, Vol. 88, p. 061004 (2021), doi: 10.1115/1.4050280.

In Sec. 3.2, the second inequality after Eq. (14) should be written as  $T_\alpha \leq \min\{\Gamma_r^-(\eta^*), \Gamma_R(\eta_0)\} < 0$  for  $\Delta p > 0$  and as  $T_\alpha \leq \Gamma_R(\eta^*) < 0$  for  $\Delta p < 0$ , where  $\Gamma_r^-(\eta_0)$  is the right-hand side of Eq. (14).

In Sec. 5.2.2, in Eq. (30): The multiplier  $\eta$  at the beginning of the integrand, should be replaced by  $\eta^{-1}$ ; the factor  $m_r$  should be replaced by  $\eta m_r$ . Equations (31) and (32) should read as follows: function  $J(\eta)$  should be replaced by  $r_0 J(\eta)$  at  $v_r^0 = 0$  and by  $R_0 J(\eta)$  at  $v_R^0 = 0$ .

In Sec. 5.3, in Eq. (35) and its analog for  $b = 0$  (the formula above Eq. (36)): function  $J(\eta)$  should be replaced by  $(-1)J(\eta)$ .

Please accept our apologies for the misprints.