Errata

The following corrections are made in "A Tracking Performance Comparison of the Conventional Data Transition Tracking Loop (DTTL) with the Linear Data Transition Tracking Loop (LDTTL)," by M. K. Simon, which appeared in vol. 42-162 of *The Interplanetary Network Progress Report*, published on August 15, 2005:

On p. 6, Eqs. (16) and (17) were incorrectly presented. The correct equations are

$$N_0' \triangleq 2 \int_{-\infty}^{\infty} R_n(\tau)d\tau = 2T \left[R(0,\lambda) + 2 \sum_{m=1}^{\infty} R(m,\lambda) \right] \tag{16}$$

and

$$N_0' = 2T \left[R(0,0) + 2 \sum_{m=1}^{\infty} R(m,0) \right] = 2T \left[E_{n,s} \left\{ e_k^2 \left|_{\lambda=0} \right. \right\} + 2 \sum_{m=1}^{\infty} E_{n,s} \left\{ e_k e_{k+m} \left|_{\lambda=0} \right. \right\} \right] \tag{17}$$

Also, on p. 7, Eqs. (20) and (21) were incorrectly presented. The correct equations are

$$N_0' = T \left(K_1 K_2 S T^2 \right)^2 \left[\frac{\xi}{2R_s} \left(1 + \frac{\xi}{4} + \frac{1}{2R_s} \right) \right] \tag{20}$$

and

$$N_0' = T \left(K_2 \sqrt{S} T \right)^2 \left[\frac{\xi}{2R_s} \left[1 + \frac{\xi R_s}{2} - \frac{\xi}{2} \left[\frac{1}{\sqrt{\pi}} \exp\left(-R_s \right) + \sqrt{R_s} \mathrm{erf} \sqrt{R_s} \right]^2 \right] \right] \tag{21}$$