# Errata

**Errata relating to H. Blok's ASME Paper No. 74-Lub-44, TRANS. ASME, JOURNAL OF LUBRICATION TECHNOLOGY, Vol. 97, Series F, No. 2, Apr. 1975, pp. 168–179, "Full Journal Bearings Under Dynamic Duty: Impulse Method of Solution and Flapping Action"**

| LOCATION | IN PRINT | CORRECT FORM |
|---|---|---|
| Equation (4d) | $dJ_n = \left(\frac{\Delta R}{R}\right) J_{\text{spec}}/\mu$ | $dJ_n = \left(\frac{\Delta R}{R}\right)^2 \cdot J_{\text{spec}}/\mu$ |
| Equation (6a) | $\Omega_u dt = d\gamma_u dt$ | $\Omega_u dt = d\gamma_u$ |
| Equation (13a) | $\frac{Wdt}{\mu R_{c,t}} = 6\pi\sqrt{2} d \left[\frac{R_{c,t}^{1/2}}{h_{\min,t}}\right]$ | $\frac{Wdt}{\mu \cdot R_{c,t}} = 6\pi\sqrt{2}\, d \left[\frac{R_{c,t}}{h_{\min,t}}\right]^{1/2}$ |
| Equation (13b) | $J_{n,f} = \left(\frac{\Delta R_u}{R}\right)^2 \cdot \frac{1}{\mu} \int Wdt$ | $J_{n,f} = \left(\frac{\Delta R_u}{R}\right)^2 \cdot \frac{1}{\mu} \int \frac{W}{2R} dt$ |
| Equation (13c) | $dJ_{n,f} = 3\pi\sqrt{2} \frac{R_{c,t}}{R} \cdot d \left[\left(\frac{R_{c,t}}{R}\right)^{1/2} \cdot \left(\frac{\Delta R_u}{h_{\min,t}}\right)\right]^{1/2}$ | $dJ_{n,f} = 3\pi\sqrt{2} \left(\frac{\Delta R_u}{R}\right)^{3/2} \cdot \frac{R_{c,t}}{R} \cdot d \left[\frac{R_{c,t}}{R} \cdot \frac{\Delta R_u}{h_{\min,t}}\right]^{1/2}$ |
| Equation (13d) | $dJ_{n,f} = 3\pi\sqrt{2} \frac{R}{\Delta R_t} \cdot d \left[\left(\frac{R}{\Delta R_t}\right)^{1/2} \cdot \left(\frac{\Delta R_u}{h_{\min,t}}\right)^{1/2}\right]$ | $dJ_{n,f} = 3\pi\sqrt{2} \left(\frac{\Delta R_u}{R}\right)^{3/2} \cdot \frac{R}{\Delta R_t} \cdot d \left[\frac{R}{\Delta R_t} \cdot \frac{\Delta R_u}{h_{\min,t}}\right]^{1/2}$ |
| Equation (14b) | $\frac{d}{dt}\left[1 - \frac{\Delta R_{b,t}}{\Delta R_u}\right]^{3/2} = \frac{1}{2\pi\sqrt{2}} \cdot \frac{1}{\mu} \left(\frac{\Delta R_u{}^6 h_{\min}^{1/2}}{R^9}\right) \cdot W(t)$ | $\frac{d}{dt}\left[1 - \frac{\Delta R_{b,t}}{\Delta R_u}\right]^{-3/2} = \frac{1}{\pi\sqrt{2}} \cdot \left[\frac{\Delta R_u{}^3 h_{\min}}{R^4}\right]^{1/2} \cdot \frac{W(t)}{\mu \cdot 2R}$ |
| Equation (15) | $\Delta J_{n,f} = \pi\sqrt{2} \left(\frac{\Delta R_u}{h_{\min}}\right)^{1/2} \cdot \left(\frac{\Delta R_u}{\Delta R_c}\right)^{1/2} \cdot \left[\left(\frac{\Delta R_u}{\Delta R_t}\right)^{3/2} - \left(\frac{\Delta R_u}{\Delta R_0}\right)^{3/2}\right]$ | $\Delta J_{n,f} = \pi\sqrt{2} \left(\frac{\Delta R_u}{h_{\min}}\right)^{1/2} \left[\left(\frac{\Delta R_u}{\Delta R_t}\right)^{3/2} - \left(\frac{\Delta R_u}{\Delta R_0}\right)^{3/2}\right]$ |