

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)	$\Omega_w dt = d\gamma_w dt$	$\Omega_w dt = d\gamma_w$
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)	$dJ_{n,f} = 3\pi\sqrt{2} \frac{R_{c,t}}{R} \cdot d \left[\left(\frac{R_{c,t}}{R}\right)^{1/2} \cdot \left(\frac{\Delta R_u}{h_{\min,t}}\right)^{1/2} \right]$	$dJ_{n,f} = 3\pi\sqrt{2} \left(\frac{\Delta R_u}{R}\right)^{3/2} \cdot \frac{R_{c,t}}{R} \cdot d \left[\frac{R_{c,t}}{R} \cdot \frac{\Delta R_u}{h_{\min,t}} \right]^{1/2}$
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)	$\Delta J_{n,f} = \pi\sqrt{2} \left(\frac{\Delta R_u}{h_{\min}}\right)^{1/2} \cdot \left(\frac{\Delta R_u}{\Delta R_c}\right)^{1/2} \cdot \left[\left(\frac{\Delta R_u}{\Delta R_t}\right)^{3/2} - \left(\frac{\Delta R_u}{\Delta R_0}\right)^{3/2} \right]$	$\Delta J_{n,f} = \pi\sqrt{2} \left(\frac{\Delta R_u}{h_{\min}}\right)^{1/2} \left[\left(\frac{\Delta R_u}{\Delta R_t}\right)^{3/2} - \left(\frac{\Delta R_u}{\Delta R_0}\right)^{3/2} \right]$