

$$E_{rr} = -\frac{4G}{r^3}Qk^2 \left(\left(-1 + \frac{3}{k^2 r^2} \right) \cos(\omega t - kr) - \frac{3}{kr} \sin(\omega t - kr) \right) (3 \cos^2(\theta) - 1) \quad (7)$$

$$E_{r\theta} = -\frac{4G}{r^3}Qk^2 \left(\left(-3 + \frac{6}{k^2 r^2} \right) \cos(\omega t - kr) + \left(kr - \frac{6}{kr} \right) \sin(\omega t - kr) \right) \sin(\theta) \cos(\theta) \quad (8)$$

$$E_{\theta\theta} = -\frac{GQ}{r^3}k^2 \left(-\left(2kr - \frac{3}{kr} \right) \sin(\omega t - kr) + \left(-k^2 r^2 + 3 - \frac{3}{k^2 r^2} \right) \cos(\omega t - kr) \right) \sin^2(\theta) \quad (9)$$