

- p.336, last expression on the right hand side of Eq (14.83):  
Delete the factor of 4 in the denominator so that the displayed equation reads as

$$\begin{aligned}\Delta\phi &= 2\pi \left(1 - \frac{\Omega'}{\Omega}\right) = 2\pi \left[1 - \left(1 - \frac{3r^*}{2R}\right)^{1/2}\right] \\ &\simeq \frac{3\pi}{2} \frac{r^*}{R} = \frac{3\pi}{c^2} \frac{G_{\text{NM}}}{R}.\end{aligned}\tag{14.83}$$

- p.410, first two lines of text on top of the page, just above Eq.(44):  
Replace the entire sentence as well as change the subscript of the  $\Gamma$  symbol on the left hand side of the first equation in (44) from  $\Gamma_{rt}^r$  to  $\Gamma_{tt}^r$  so that the text and equation together read as

"From the ( $t$ -independent) metric in (42) we can calculate the Christoffel symbols as in (14.32) – but restricted to  $r = R$  and  $\theta = \pi/2$ . The relevant non-vanishing elements are

$$\begin{aligned}\Gamma_{tt}^r &= \frac{r^*}{2R^2} \left(1 - \frac{r^*}{R}\right), & \Gamma_{\phi\phi}^r &= -R \left(1 - \frac{r^*}{R}\right), \\ \Gamma_{rt}^t &= \frac{r^*}{2R^2} \left(1 - \frac{r^*}{R}\right)^{-1}, & \Gamma_{r\phi}^\phi &= \frac{1}{R}.\end{aligned}\tag{44}$$

- p.410, left hand sides of Eq.(46) and the not-numbered equation after (46): Insert missing factors of 2 in the second term inside the parenthesis, so the equations should read

$$\frac{dS^r}{dt} - R\Omega \left(1 - \frac{3r^*}{2R}\right) S^\phi = 0.\tag{46}$$

and .....

$$\frac{d^2S^r}{dt^2} - R\Omega \left(1 - \frac{3r^*}{2R}\right) \frac{dS^\phi}{dt} = 0$$

- p.410, left hand sides of Eq.(48) and the text following the equation:  
Insert a missing factor of 2 inside the parenthesis, and add a qualifying clause at the beginning of the paragraph below the equation so that they read as

$$\Omega' = \left(1 - \frac{3r^*}{2R}\right)^{1/2} \Omega,\tag{48}$$

which is given in Eq.(14.80). The simple harmonic oscillator equation (47), ...