

# Recalculation of $\Omega_{Spi}$ (continued)

for the Solar System

$$\omega = \frac{1}{ct_g} \left[ \frac{1}{A^{1/2} r^2} \left( \left( \frac{dr}{d\theta} \right)^2 + r^2 \right)^{1/2} - 1 \right] \quad (1)$$

$$\text{where } \left( \frac{dr}{d\theta} \right)^2 = \left( \frac{(-x)}{d} \right)^2 r^4 \sin^2(x\theta) \quad (2)$$

$$\omega = \frac{1}{ct_g} \left[ \frac{1}{A^{1/2} r^2} \left( \left( \frac{(-x)}{d} \right)^2 r^4 \sin^2(x\theta) + r^2 \right)^{1/2} - 1 \right]$$

$$= \frac{1}{ct_g} \left[ \frac{1}{A^{1/2} r} \left( \left( \frac{(-x)}{d} \right)^2 r^2 \sin^2(x\theta) + 1 \right)^{1/2} - 1 \right] \quad (3)$$

$$\text{where: } \sin^2(x\theta) = 1 - \frac{1}{e^2} \left( \frac{d}{r} - 1 \right)^2 \quad (3)$$

$$\text{So } \omega = \frac{1}{ct_g} \left[ \frac{1}{A^{1/2} r} \left( \left( \frac{(-x)}{d} \right)^2 r^2 \left( 1 - \frac{1}{e^2} \left( \frac{d}{r} - 1 \right)^2 \right) + 1 \right)^{1/2} - 1 \right]$$

Error occurred here, the superscript 2 was dropped  
This only affects eq. (3) of UFT 198.