

$$= \frac{1}{2} \left( \left( \frac{dx \hat{x} + dy \hat{y} + dz \hat{z}}{2} \right) \times \left( \frac{1}{10} \right) + \hat{z} \right)$$

$$= \frac{1}{2} \frac{1}{10} \left( \frac{dx \hat{y} + dy \hat{x}}{2} \right)$$

$$= -\frac{1}{2} \frac{1}{2} \frac{1}$$

$$F_2 + F_3 = - \frac{1}{53\pi} \frac{1}{515} \frac{1}{515} \frac{1}{515} \frac{1}{515} \frac{1}{515} \frac{1}{515}$$

Fret = 
$$F_1 + F_2 + F_3$$
  
=  $\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$ 

$$= \frac{\int u_0 I^2 a \hat{y} - \int u_0 I^2 lu \left( \frac{s}{5} + \frac{4}{2} \right) \hat{y}}{2\pi s}$$

$$= \frac{\int u_0 I^2 \left( \frac{a}{2s} - \frac{1}{5} \right) lu \left( \frac{s}{5} + \frac{4}{2} \right) \hat{y}}{\pi}$$

$$= \frac{\int u_0 I^2 \left( \frac{a}{2s} - \frac{1}{5} \right) lu \left( \frac{s}{5} + \frac{4}{2} \right) \hat{y}}{\pi}$$

$$= \frac{\mu_0 I^2 a \hat{y} - \mu_0 I^2 \ln |s| 5 + a_{12}}{2\pi s}$$

$$= \frac{\mu_0 I^2 a \hat{y} - \mu_0 I^2 \ln |s| 5 + a_{12}}{13\pi}$$

$$= \frac{\mu_0 I^2 a \hat{y} - \mu_0 I^2 \ln |s| 5 + a_{12}}{13\pi}$$