Net repulsive force experienced

y an area element in a hemisphere =  $\int dF \cdot cos\theta$   $\int dF \cdot cos\theta = \int \frac{1}{2} \sigma^2 dA \cdot cos\theta$   $= \int \frac{1}{2} \left(\frac{Q}{u\pi R^2}\right)^2 x \left(\frac{R^2 sin\theta d\theta d}{R^2 sin\theta d\theta d\theta}\right) \left(\frac{R^2 sin\theta d\theta d\theta}{R^2 sin\theta d\theta d\theta}\right)$ 

1

