

$$\Phi = \oint_{\text{surface}} \vec{E} \cdot d\vec{A}$$

$$\vec{R}_{ip} = \vec{R}_p - \vec{R}_i = R_{p,x} \hat{x} + R_{p,y} \hat{y} + R_{p,z} \hat{z} - R_{i,x} \hat{x} - R_{i,y} \hat{y} - R_{i,z} \hat{z}$$

$$\hat{x} \hat{y} \hat{z} \vec{r}_1 \vec{r}_2 \vec{r}_3 \sum_{i=1}^{\infty} \mathbb{C}_{\mathbb{R}}$$