

$$0: 4 \le x^{2} + y^{2} + z^{2} \le 9$$

$$4 \le r^{2} \le 9$$

$$0 \leqslant \varphi \leqslant 2\pi$$

$$-\frac{\pi}{2} \leqslant \psi \leqslant \frac{\pi}{2}$$

$$\int_{0}^{2\pi} d\varphi \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} d\gamma \int_{2}^{3} r \cos \psi dr =$$

$$0 \leqslant \varphi \leqslant 2\pi$$

$$-\frac{\pi}{2} \leqslant \psi \leqslant \frac{\pi}{2}$$

$$\int_{-\frac{\pi}{2}}^{2\pi} d\varphi \int_{2}^{\frac{\pi}{2}} |\nabla \varphi|^{2} d\varphi = \int_{-\frac{\pi}{2}}^{2\pi} d\varphi \int_{2}^{2\pi} |\nabla \varphi|^{2} |\nabla$$

$$\iiint xyz dxdydz \qquad U: \sqrt{x^2+y^2} \leq z \leq \sqrt{1-x^2-y^2}$$

$$\frac{7}{4} \leqslant \gamma \leqslant \frac{7}{2}$$