

1.9 (a) Given \mathcal{C}^1 mappings $[a, b] \xrightarrow{c} \mathcal{R}_u^n \xrightarrow{F} \mathcal{R}_x^n$, define $\gamma = F \circ c$. Show that

$$\gamma'(t) = \sum_{i=1}^n c_i'(t) D_i F(c(t))$$

and conclude that the length of γ is

$$s(\gamma) = \int_a^b \left[\sum_{i,j=1}^n g_{ij} \frac{du_i}{dt} \frac{du_j}{dt} \right]^{1/2} dt,$$

where $g_{ij} = (\partial F / \partial u_i) \cdot (\partial F / \partial u_j)$.

(b) Let $F : \mathcal{R}_{r\theta z}^3 \rightarrow \mathcal{R}_{xyz}^3$ be the cylindrical coordinates mapping given by

$$x = r \cos \theta, \quad y = r \sin \theta, \quad z = z.$$

Let $\gamma : [a, b] \rightarrow \mathcal{R}_{xyz}^3$ be a path described by giving r, θ, z as functions of t , that is,

$$c(t) = (r(t), \theta(t), z(t)).$$

Deduce from (a) that

$$s(\gamma) = \int_a^b \left[\left(\frac{dr}{dt} \right)^2 + r^2 \left(\frac{d\theta}{dt} \right)^2 + \left(\frac{dz}{dt} \right)^2 \right]^{1/2} dt.$$

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