

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  $\gamma$  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  $r, \theta, z$  as functions of  $t$ , that is,

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

Deduce from (a) that

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

# Advanced Calculus Problems And Solutions

**James McKeen Cattell**



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