

### **foundations of fluid mechanics pdf**

Biomechanics is the study of the structure and function of the mechanical aspects of biological systems, at any level from whole organisms to organs, cells and cell organelles, using the methods of mechanics.

### **Biomechanics - Wikipedia**

Definition. If  $V$  is the fluid velocity on a small element of a defined curve, and  $dl$  is a vector representing the differential length of that small element, the contribution of that differential length to circulation is  $d\Gamma = \hat{V} \cdot d\mathbf{l} = |V| |dl| \cos \theta$  where  $\theta$  is the angle between the vectors  $V$  and  $dl$ . The circulation around a closed curve  $C$  is the line integral:  $\Gamma = \oint_C \hat{V} \cdot d\mathbf{l}$  ...

### **Circulation (fluid dynamics) - Wikipedia**

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