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surface element embedded in the fluid, with area $\hat{t}A$ and normal n . F is the force exerted by the fluid on side 1, on the fluid on side 2.

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Introduction to Fluid Mechanics 200 Apparent viscosity (Pa . s) Shear stress (Pa) 700 600 150 500 400 100 300 200 100 0 0 50 (a) 100 Strain rate (1/s) 50 0 150 0 (b) 50 100 Strain rate (1/s) 150 FIGURE 1.7 Graph of the viscosity data for Jif1 creamy peanut butter. for the last six data points is given in Figure 1.7b.

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