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fluid, the region must be thought of as split up into a large number of small fluid elements (fig. 2), one of which, at point x and time t , has volume $\hat{v} V$, say.

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But if we apply a shear stress to a fluid element, for example of water, we observe that no matter how small the stress, the fluid element deforms, as shown in Fig. 2.2(b) where the dashed lines indicate the vertical boundaries of the fluid element before application of the shear stress.

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C.T. Shaw, Using Computational Fluid Dynamics, Prentice Hall, 1992 used as a demonstration example in the chapter of case studies, Chapter Ten. First, we must think about the reasons for carrying out the simulation.

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using small floating particles of the same density as the fluid. Sometimes they are referred to as trajectories. Filament lines or streaklines are traced out over time by all particles passing through a given point; they may be visualized, for example, using a hypodermic needle and releasing a slow stream of dye.

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