

Turbulent Flows

Stephen B. Pope
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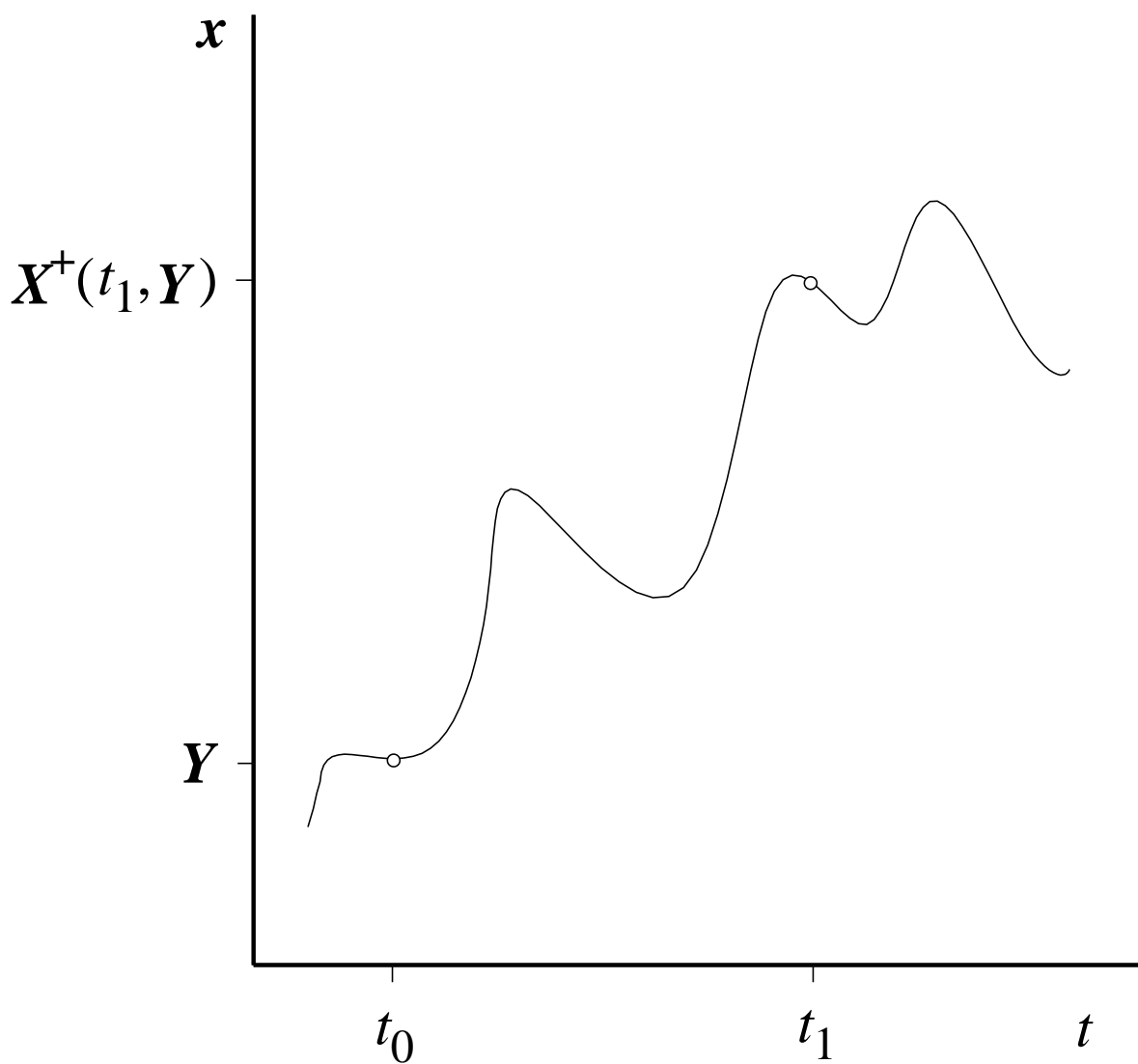


Figure 2.1: Sketch of the trajectory $\mathbf{X}^+(\mathbf{t}, \mathbf{Y})$ of a fluid particle in \mathbf{x} - t space, showing its position \mathbf{Y} at the reference time t_0 , and at a later time t_1 .

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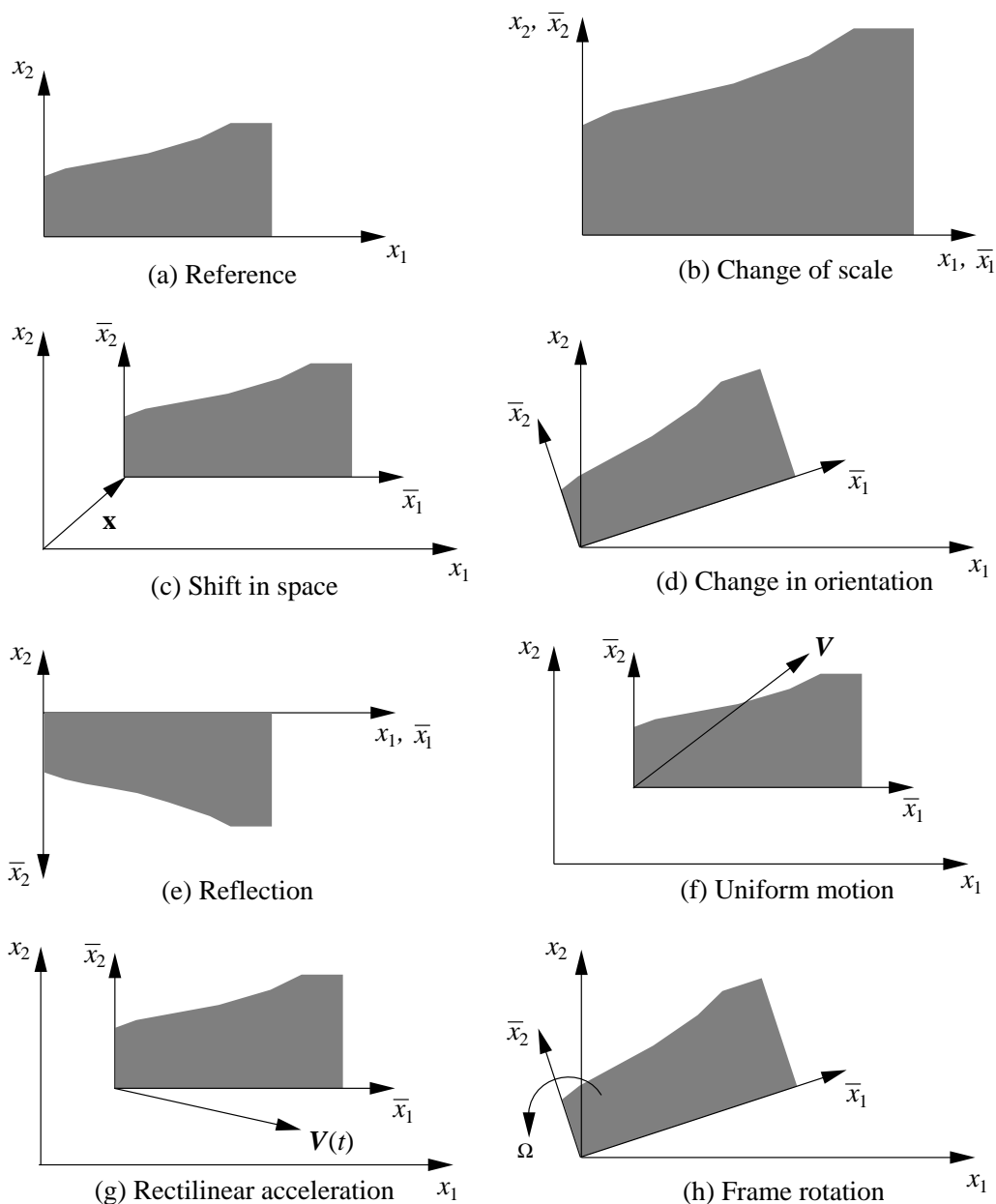


Figure 2.2: Sketch of experiments used to study the transformation properties of the Navier-Stokes equations: (a) reference experiment (referred to the E coordinate system); (b)–(h) other experiments (referred to the \bar{E} coordinate system).