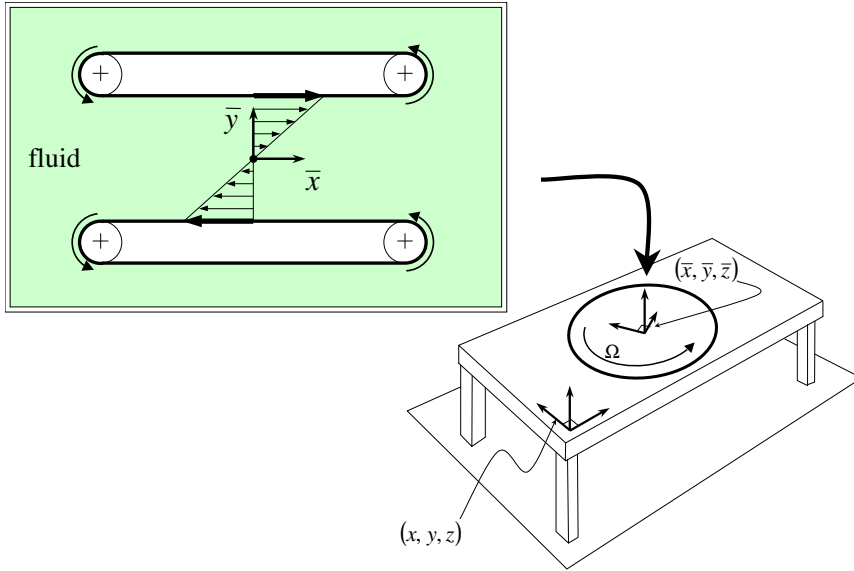
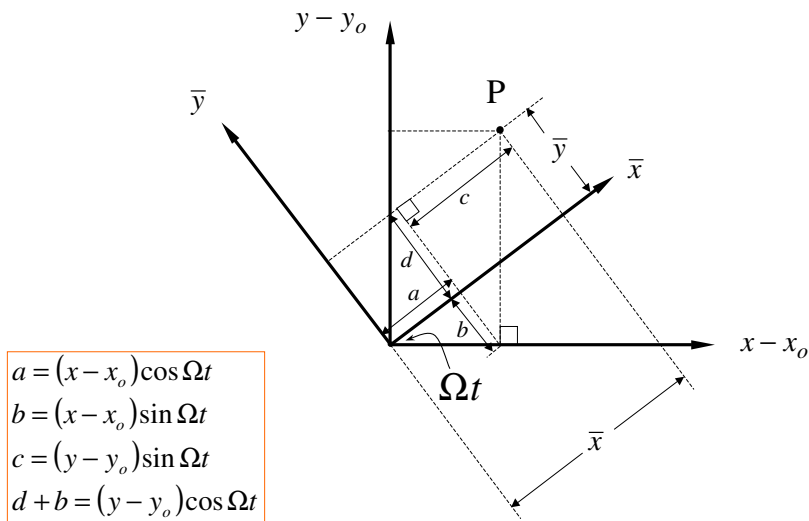


## Shear flow in a rotating frame of reference



© Faith A. Morrison, Michigan Tech U.

## Shear flow in a rotating frame of reference



© Faith A. Morrison, Michigan Tech U.

**Summary:** *Generalized Linear-Viscoelastic Constitutive Equations*

- PRO:**
- A first constitutive equation with memory
  - Can match SAOS, step-strain data very well
  - Captures start-up/cessation effects
  - Simple to calculate with
  - Can be used to calculate the LVE spectrum

- CON:**
- Fails to predict shear normal stresses
  - Fails to predict shear-thinning/thickening
  - Only valid at small strains, small rates
  - Not frame-invariant**