

Conservation of Mass

Conservation of Mass (COM)



Reminders

- 1. Identify your control volume.
- 2. Draw your EFD.
- 3. State major assumptions where you use them.

Notes

1. (mass flow rate) = (density)*(volumetric flow rate): V = V = V

$$\dot{m} = \rho V A = \frac{V A}{v}$$

2. When using the First and Second Laws applied to a CV, usually COM will also be used.