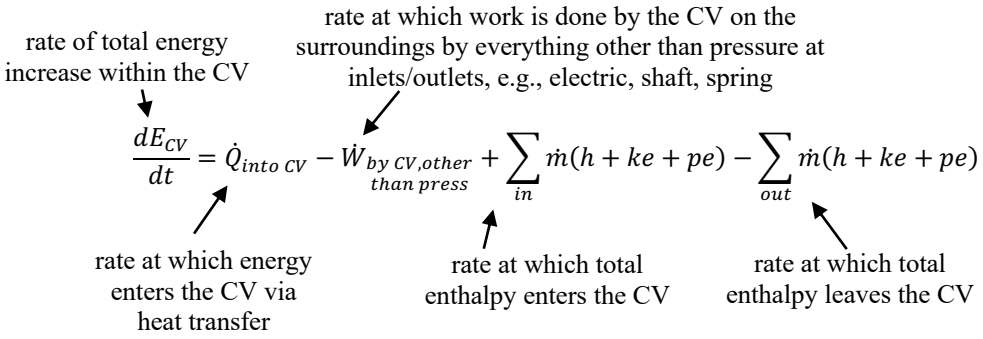
The First Law with Mass Flow

First Law of Thermodynamics for a Control Volume



Reminders

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

Diffusers

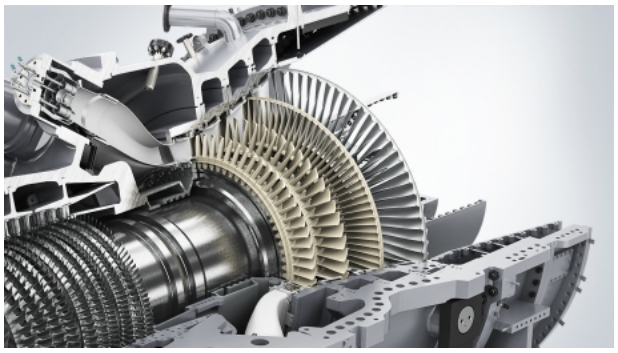
Nozzles

Heat Exchangers

(Boilers and condensers are types of heat exchangers.)

Throttling Devices

Turbines



Compressors/Pumps