Degree of freedom analysis	
	of freedom analysis draw a flow chart and label it, count count the number of independent number of equations per of independent relation.
	Int relations: MATERIAL BALANCE: For a non nuclear reaction the mass of the components at the output will be the same as the mass of the components at the input. If the process is a reactive process, we can perform the atomic balance. If there are x components and y streams, maximum number of material balances will be x*y. Process specifications: in the process some details might be provided relating to the unknown variables Physical laws (explicit information): Some variables might be deduced using the physical laws. For example, raoult's law and ideal gas behavior. Stoichiometric relations: If the process has reactive components and the equation for the chemical reaction provides us some more information about the unknown variables.

- 1. If degree of freedom =0, all the independent equations are solvable and we can find all the unknown variables.
- 2. If degree of freedom is negative then the flowchart is overspecified.
- 3. If degree of freedom is positive the problem is underspecified and we can't find all the unknowns .