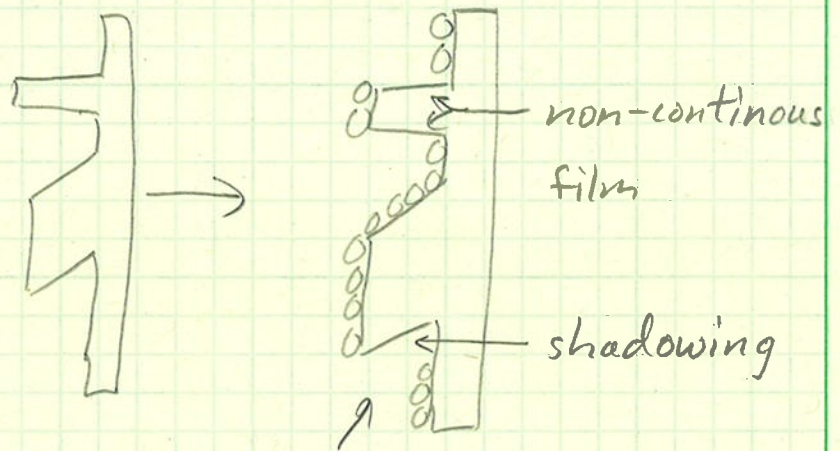
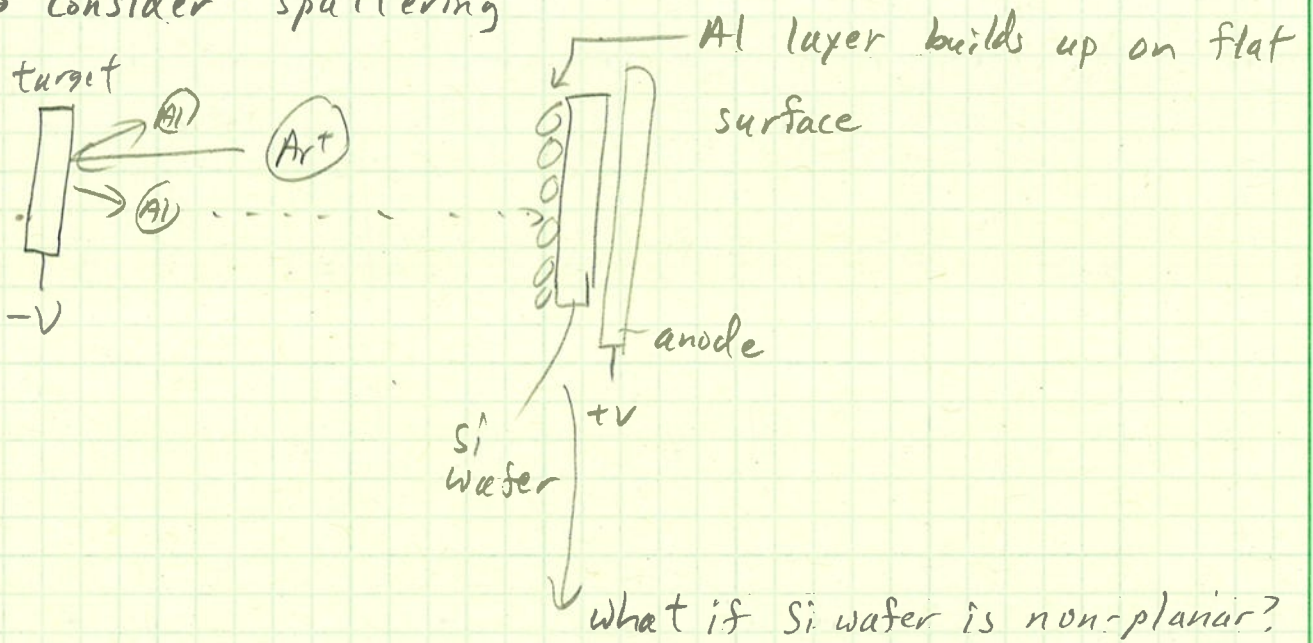


# Points to Consider in Microfabrication

## (1) Coating Coverage

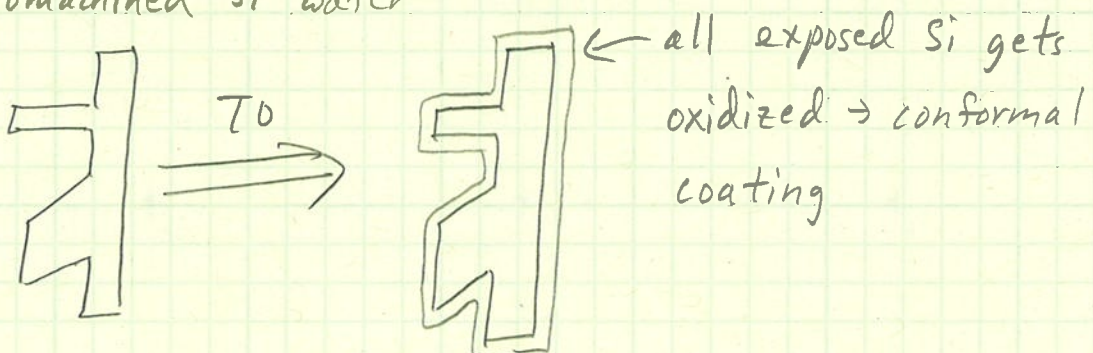
→ Consider sputtering



a "non-conformal coating"

→ consider thermal oxidation (TO)

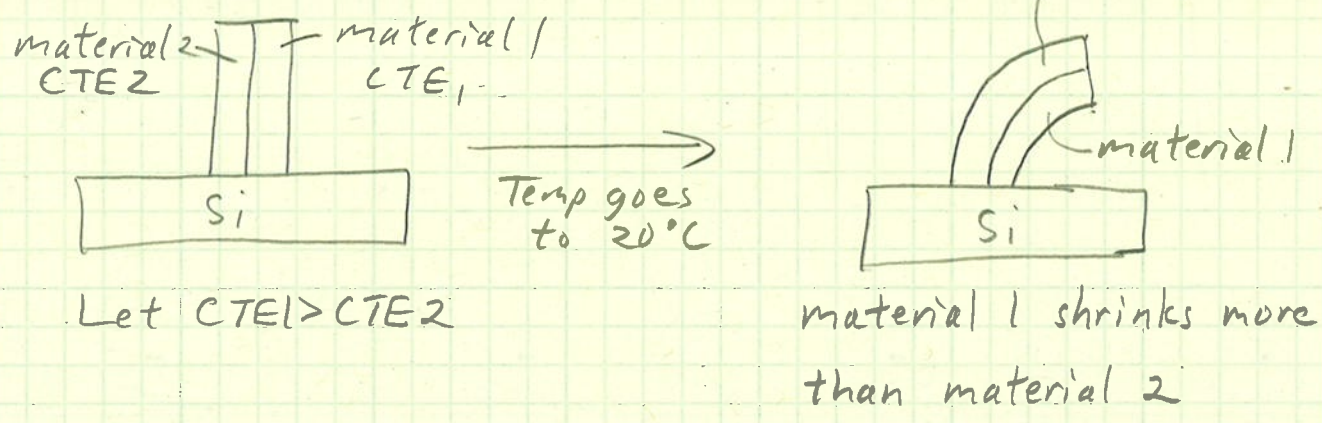
Micromachined Si wafer:



(2) Coefficient of Thermal Expansion : CTE

- a material property
- the relative amount a material expands with increasing temperature or shrinks with decreasing temperature
- Consider effect of high temp processing:

Created at 250°C



- Possible Effects →
- (1) structure deform, warp, bend
  - (2) stresses in layers → affect properties
  - (3) cracking, peeling, fracturing