## NOTES LECTURES 8-29-17



Eapp = 1 - Sapp

So open poul

Solid

Closed poses. Vcp.

Was

Vop

Vop

Sapp = Ms
Ss = Ms

Ss = Ms

Vs + Vop + Vop

Apparent

deusity

Eapp = 1 - Vs+Vcp+Vop -1 - Vs

NMS Vs+Vcp+Vop

Vs closed pros + open

Vs - Vcp + Vop Poren.

Vs+Vcp + Vop

Vs+Vcp + Vop

Vs+Vcp + Vop

TOTAL Ydune

$$\mathcal{E}_{B} = 1 - \mathcal{S}_{B}$$

$$\mathcal{S}_{PART}.$$
(3)

Example 2

- (a) Volume of the bag
- (b) Amount of No

SB = M 25 kg. a ETP = 1- SB = Ss /1-ETP SB = 1100 [1 - 0.43] = 627 Kp/m3 Vbog = 25 kg/ ~ 0.04 m3 = 401 ~ 10ge 627 Kg/m3 1 m3 = 1000 1 pal = 3.7 l ≈ 4l. (b) Volume of N2 = volume of open poses + Volume of interpolicile EB = Yolume of open poses + interspece volume Volume of N2 = EB xxxxxx Vbap.

Ecp = 0.15 = 1 - Sper (5) /1100 kg/m3 Sport = (1-0.15) x1100 up = 935 kg/m<sup>3</sup>  $E_{B} = 1 - \frac{S_{B}}{S_{port}} = 1 - \frac{627 \, \text{kg/m}^{3}}{935 \, \text{kg/m}^{3}} = 0.33$ VolumeNo = 0.33 x 0,04 m3 = 3,6 gollons of My

BECAUSE PHASE CHANGES APVD BECAUSE A BIOMATERIAL FOOD IS NOT WATER