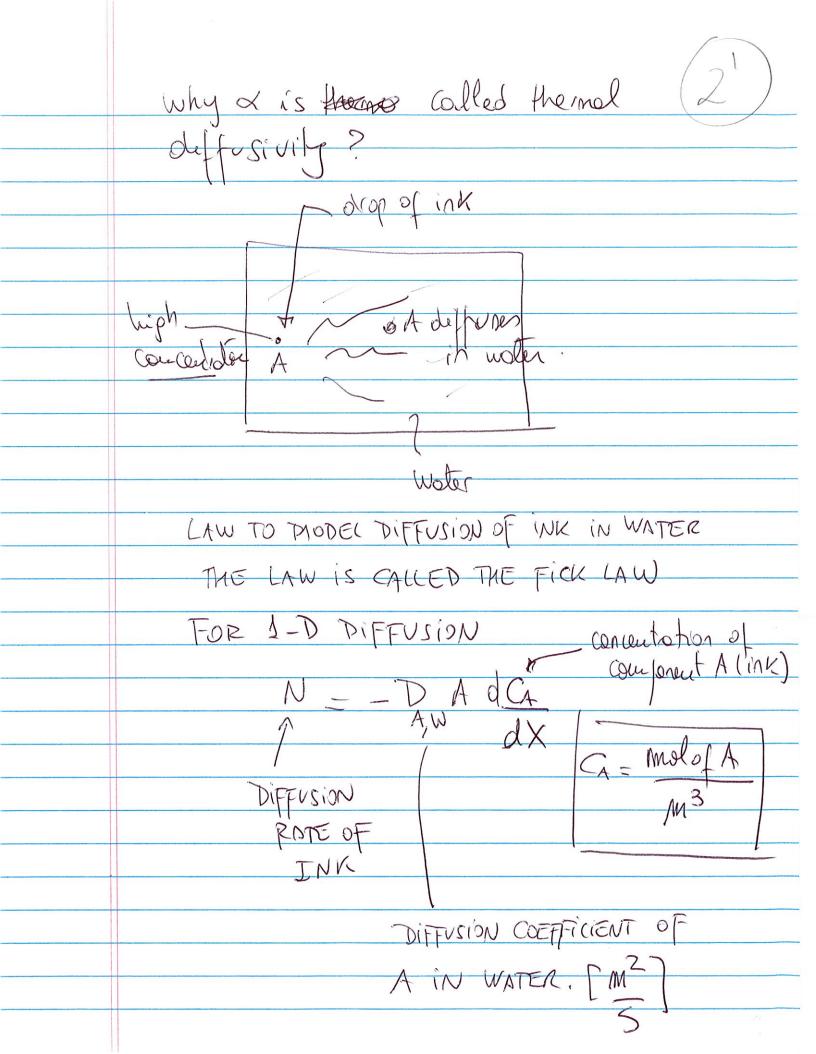
NOTES CLASS 9-12-17 (1 SLIDE  $A(c) = 2\pi c$ charging Q = - K ZTTCL do Question solial Solid Vistema · Air pockets Ks : thermal conductivity. Kz thered

MATERIAL 2 MAS AIR POCKETS AND (2)
COMPUCTS HEAT SLOWLY
THE NOTA'N
A BILITY OF THE MOTERIAL
ABILITY OF THE MATERIAL  TO COMPUCT MEAT
PC
THERMAL INERTIA
- MORE AIR IN THE MATERIAL
K -> MATERIAL TRANSFER HEAT SLOWLY
PC => C does not change => SC
P( -> 5C)
Mania to a Toma
MATERIAL HEAT FASTER
IN TIME
VALUES OF &:
$\mathcal{W}/_{0.0}$
<= K ≅ 0.01 W/M.K = =
PC 1000 1/2 x 4.2 x 103 J
M3 / 1/2.14
6 7/5
∠ = 0.01 × 10  W M ≥ 2
~ 4 3 m
· ·

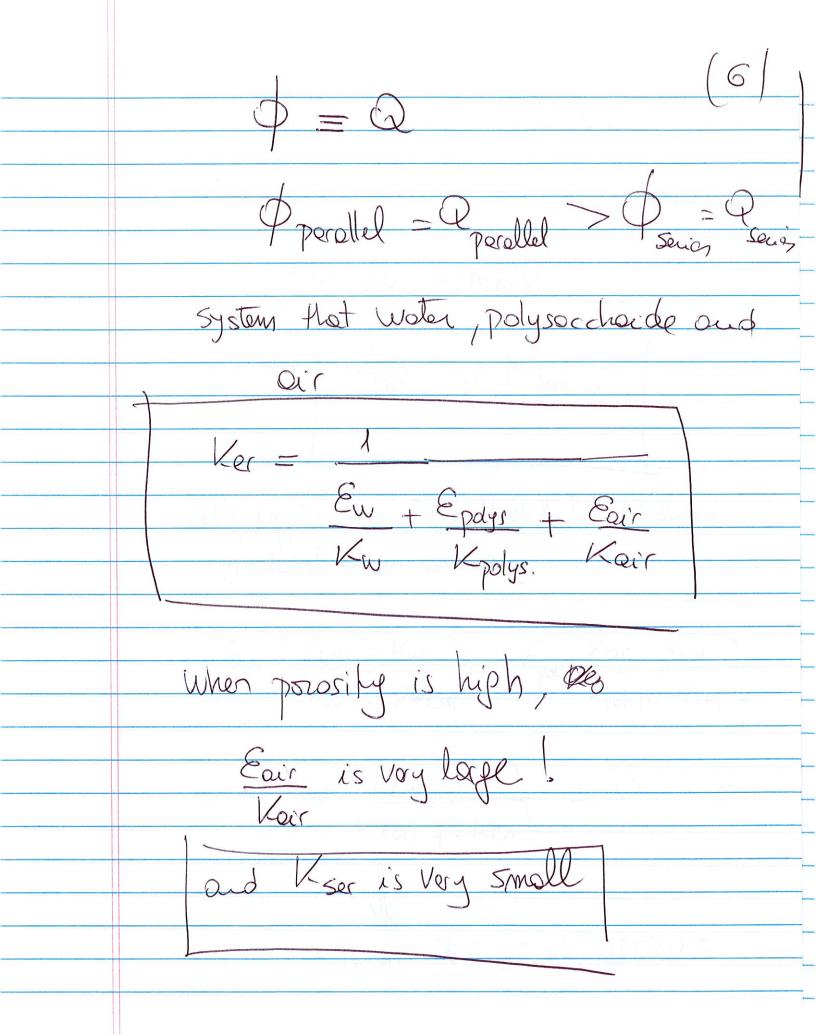


(3) Fourier LAW Q = -KA 20(3C) THERMAL DIFFUSIVITY concentration of energy. Ei - Volume of Component i TOTAL Volume L' CAN BE WATER PROTEIN, POLYSACIONNIDE ItC AND CAN BE AIR

Volume Fraction rotune of moteral mass of solid Massofsolid Volume of compared i

V.

Question Bosed on Kice = 2,4 W/m.k Kwoter ~ 0.5 W/m.K What is taking larger Freeze or thew a Dismoleial? TREEZING PROCESS THAWING PROCESS 1D-HEAT TRANSFOR. +>0 water LATENT HEAT FREZING ice W=7.4W M.K HEATIS TRANSFERRED HEAT THROUGH A ICE LAYER THANNING TOKES LONGER THAN FREEZING



SLICE 16 EMT MODEL FOR TWO (8)
SLICE 16, EMT MODEL FOR TWO (8) COMPONENT, ONE COMPONENT IS
THE DISPERSED PHASE (INDICATED BY
d", AND THE OTHER COMP ONENT IS
THE CONTINUOUS PHASE (INDIFFED BY
C''
IN ICE CREAM WHAT IS THE DISPERSED
PHASE AND WHAT IS THE CONTINUOUS
PHOSE?
The in the Discourse Divise
 ICE is the dispersed Physe
PROTEIN FAT + SUGARHETC = CONTINUOUS  PHASE
PHDSE