Tutorial - 6

Q.I. Asbestos insulations (K=0.2 W/mk) is put on a Steel pope (1.6 cm (D + 2 cm op) , not water. at 90°C flows through the pipe and heat transfer weft. (hi) is 500 w/m2k. Met is lost from the outer surface by natural convertion to surrouding air at 30°C. and heat trans. wets. (ho) is 10 w/m2k. Calculate the heat loss rate for metre. kength of the pospe for insulation turcouls of to, I and y am what's your or) obsent vation). Neglect the mal rest b) what will happen it trouballon material is charged to minero glass wood (k=0.00 W/mk) 1) what will happen if, very ashester, there natural convection is replaced with forced convertion (ho = 50 W/m2k) Meglet thormal veristance of pipe.

Find out the relation of for steady thin state temporature dirthibution in an thin in finites lab of width 2b in which heat is generated at a uniform rate of 9 with statement with splenne, the beat troupy with a statement and an bind temp. is To.

FALL = YIBIA