



PROBLEM TWO Eb, A = 2TT C2h 2-5 8=1 exp (ch 5 +1 C=3e35 N=6.625e375.5 (Planck 5(0H) K=1.38c-235 (BOH787CUN COH) T= temp 1 = wave length in meters EEARTH = [E, + 5] D) = (105-104 Lim E. = 105 um E2: 104 um PROBLEM THREE T=5.617×10 m2K4 Prig-bourn = T (Tpig"-Tbarn")

1-Epicy + 1 Fpig-barn=1 EpigApig Apig&Fpig-barn Ebarn Abarn
Apia = 0 Apiq =0

2 pig-barn = 2 pig Apig T (Tpig - Tbarn 4)

2 pig = Epig/Apig/Tpig/: watts = watts PROB EOUR Q"= 90 watts n=12 w m2 Energy Balance Egen = Éconn + ÉRAD Gen Aperson = h Aperson (Townface - Tair) + Geom-wall

Operson-wall = Aperson F [Ts" - Twall I ]

(Ts 4 - Tw 1] -> (Ts2 - Tw )(Ts2 + Tw2) Ts = Tw Twis=f(Twall)

2"gen Aperson = hAperson (Ts-Tair) + Aperson 4Ts3(ts-Ta)