#21,39,59,113

ASEN 3113 HV#E

21.39/1 6. ver: 4 Ccm x40 cm Window
31ad body assimption
T=1260 K

T=67 for 2×3 um

T= 6.7 for 2 × 3 µm
T= 8 for 2 > 3 µm

Findit and Ger

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Salu: IT = (3 µm)(120 K) = 3600 µmK

table 21-2 -> fx = 0.403607

Ttotal = T, f2 + T2 (1-fa)

= 0.7 (0.403607) + Ø (0.596393)

Ttdel: 0.2825

Gar = Trolog G = Trolog (AST4)

= (0.2825)(6.4m2)(5.67e-08 1/10 K4)(1200 K)4

G+=5315 W

21.54 Biven: D 7- Ind : F:-> Bolve: Swebare; cause see itself, tweefare, Fi. - 0 (1) By Summittan Rule: F; +F: =1 (2) Combin (1) & (2): F:=1 Reciprocity theorem: A; F: -A: F; $F_{ij} = F_{i} \left(\frac{A_{i}}{A_{i}} \right) = I \left(\frac{\pi \left(\frac{d}{2} \right)^{2}}{\frac{1}{2} \left(9 \pi \left(\frac{d}{2} \right)^{2} \right)} \right)$

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Assur : Col & Steak & Gastord 21.113/ GIEN: Suchs 0,2 M Coal To= 950 K To= 5°C= 278 K Find: QC-25 11/ aper side & remaining side Solve: Table 21-3 => tes - 1 + 2R2 - 1 + 1- JA(0.75)2+1. Qcs = Ac Fcs O (Tc - Ts) R= = 0.15m = 0.75 Qcs - (11(0,15 m) 3)(0,28642)(567e-08 /2 V4)(950 K4 - 278 K4) = 1928.2W1 For a necessiating surface, QF = Ø = QCf + QSf = Ac Fcf (Ecc For) + Astof (For Ist) EGG- AcFeff As Fof Fcf+Fcs=1=>Fcf=1-Fcs=0.71358 _ by symmetry Fcf=Fsf=0.71358 Fle = 0 Te 4 - (5.67e - 08 m= +) (950 K) 4 - 46, 182 W F65-6 T5 4- (5.680-08 m200) 27894-338.74 F60= (π(0.15-)°)(0.713C)(46. B2 π) + (π(0.15π)°) (0.7136) (358.7 π) - 23,260 μ2
(π(0.15π)°)(0.7136) + (π(0.15π°))(0.7136) Q5 = Qcs + Qts = Qcs + Ast + S(Est - Ess) = Qcs + Ast St (Est - Ess) = 9282 V4 (TT(6.150)2)(0.7136)(23,260 H- 338.7 W) = 2084.4 W