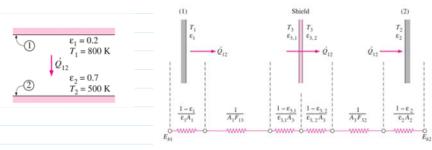
## Week6-mohammad javad mollaiyan

Tuesday, November 12, 2019 9:58 PM

## Task 1

Considering the same example you solved in the previous assignment (radiative heat transfer between two parallel plates), how many shields with epsilon = 0.1 should you add in order to have the new heat transfer rate to be 1% of the case without shields?



answer:

$$Q_{12} = \frac{\mathcal{E}_{3_1} - \mathcal{E}_{b_2}}{\frac{1 - \mathcal{E}_1}{A \mathcal{E}_1} + \frac{1}{A \mathcal{E}_2} + \frac{1 - \mathcal{E}_2}{A \mathcal{E}_2}} = \frac{A G(\tau_1^4 - \tau_2^4)}{\frac{1}{\mathcal{E}}_1 + \frac{1}{\mathcal{E}_2} - 1}$$

$$Q_{12Nshield} = \frac{E_{bl} - E_{be}}{\frac{I - \varepsilon_1}{A\varepsilon_1} + \frac{I}{AF_{13}} + \frac{I - \varepsilon_3}{A\varepsilon_3} + N \times \left(\frac{I - \varepsilon_3}{A\varepsilon_3} + \frac{I}{AF_{33}} + \frac{I - \varepsilon_3}{A\varepsilon_3} + \frac{I}{A\varepsilon_3} + \frac{I}{A\varepsilon_3} + \frac{I - \varepsilon_3}{A\varepsilon_3} + \frac{I}{A\varepsilon_3} + \frac{I}$$

$$\frac{AG(T_{i}^{4}-T_{2}^{4})}{(\frac{1}{\varepsilon_{1}}+\frac{1}{\varepsilon_{3}}-1)+N(\frac{1}{\varepsilon_{3}}+\frac{1}{\varepsilon_{2}}-1)+(\frac{1}{\varepsilon_{3}}+\frac{1}{\varepsilon_{2}}-1)} = \frac{AG(T_{i}^{4}-T_{2}^{4})}{(\frac{1}{\varepsilon_{1}}+\frac{1}{\varepsilon_{2}}-1)+(N+1)(\frac{1}{\varepsilon_{3}}+\frac{1}{\varepsilon_{3}}-1)} = \frac{O(N+1)(\frac{1}{\varepsilon_{3}}+\frac{1}{\varepsilon_{3}}-1)}{(\frac{1}{\varepsilon_{1}}+\frac{1}{\varepsilon_{2}}-1)+(N+1)(\frac{1}{\varepsilon_{3}}+\frac{1}{\varepsilon_{3}}-1)} = O(N+1) =$$

in End 27 Sheld can be added between from.

## Task 2

I had problem organizing the pictures I set note about process . In first stage I did made the building by set the veiw to top and then make it and then offset it and then make it 3 lvl and next I add shader by not adding north angel which is less then 360 .

then we add some information with openstudio and then we add weather data and then we process with it and our resualt is done

