

	4/2	-
- >	Count all renotance in the system.	
	Exam m Eb2 1-E1 1 1-E2 E.A1 AIF12 E2A2	
	$\mathcal{L}_{1} = \frac{\mathcal{L}_{0} - \mathcal{L}_{02}}{\mathcal{L}_{1} + \mathcal{L}_{1} + \mathcal{L}_{2}} = \frac{A^{6}(7)^{4}}{\mathcal{L}_{1} + \mathcal{L}_{2}}$	12 ⁴) -1
	Radication Shield	
	Est Fest Fest AFS2	
: <u>`</u> ` \	$Q_{12} = \frac{A G(T_1^4 - T_2^4)}{\left(\frac{1}{2} + \frac{1}{2} - 1\right) + \left(\frac{1}{2} + \frac{1}{2} - 1\right)}$	
	2 Swfaces of Shield	
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
	$Q_{12} = 89 \frac{G(T_1 - T_2^4)}{\frac{ -\varepsilon }{\varepsilon_1 A_1} + \frac{ -\varepsilon }{A_1} + \frac{ -\varepsilon }{\varepsilon_2 A_2}}$ $A_1 G(T_1 - T_2^4)$	
	$=\frac{A_{1}G(T_{1}q-T_{2}q)}{\sum_{i}+A_{i}(\sum_{i}q)} \approx \xi_{i}A_{1}G(T_{1}q)$ $=\frac{A_{1}G(T_{1}q-T_{2}q)}{\sum_{i}+A_{i}(\sum_{i}q)} \approx \xi_{i}A_{1}G(T_{1}q)$	- 24
Txo	$ \begin{array}{c c} \hline 1 & 3 & imaginary \\ \hline 1 & 1 & 5 & 5 \\ \hline 1 & 2 & 5 & 4 \\ \hline 1 & 2 & 5 & 4 \\ \hline 1 & 3 & 5 & 4 \\ \hline 1 & 2 & 5 & 4 \\ \hline 1 & 3 & 5 & 4 \\ \hline 2 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 4 & 5 \\ \hline 1 & 5 & 5 & 5 & 4 & 5 \\ \hline 1 & 5 & 5 & 5 & 5 & 5 \\ \hline 1 & 5 & $	4
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	

If we assume temperature or heat flux are uniform across

$$J_{i} = \underbrace{\varepsilon_{i}}_{Ebi} + (F\varepsilon) \left[\sum_{j=1}^{N} J_{i}F_{i-j} + H_{0i} \right]$$

$$A_{1}$$

$$A_{2}$$

$$Or \quad J_{i} = \underbrace{f_{i}}_{f_{i}} + \underbrace{\sum_{j=1}^{N} J_{j}}_{f_{i}} F_{i-j} + H_{0i}$$

or
$$\frac{g_i}{g_i} - \sum_{j=1}^{N} (f_{i-j}) f_{i-j} g_j + Hoi$$

$$= \sum_{j=1}^{N} f_{i-j} (Ebi - Ebj)$$

4 swefaces 4 equations for the above example.

· Radiation Network Mexhod < 3 surfaces

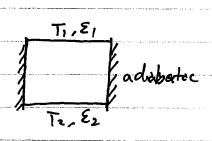
we dready have
$$f_i = \frac{\mathcal{E}_i}{1-\mathcal{E}_i} (\mathbf{F}_i - \mathbf{F}_{ii})$$

$$Q_i = \frac{A_i \mathcal{E}_i}{1 - \mathcal{E}_i} (\mathbf{F}_i \mathcal{F}_i)$$

$$= \frac{E_{6i} - J_{i}}{F_{6i}/\epsilon_{i}A_{i}} = \frac{E_{6i} - J_{i}}{R_{i}}$$

Qi>j 图= Ji AiFi-j & Surface veno

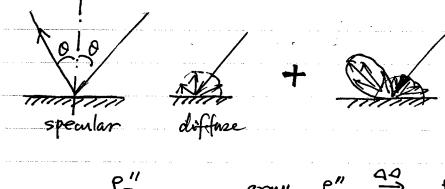
Ebi Jie Rij Jam Ebir Ri My T

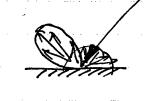


E,
$$J_{-}$$
 J_{2} E_{b2}

$$J_{3} = E_{b3}$$

* partially specular & partially diffuse surfaces



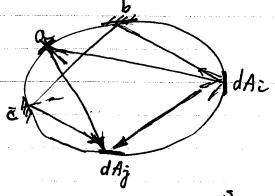


grey s" = 53

— total . hemispheren |- hemispheren | veflect two.

$$S = S^d + S^s = 1 - x = 1 - x$$

or of the spearlan.



Specular view factor

diffuse power leas dhe intereste

df and the day and the diffuse power leas dhe

total diffuse power leas dhe

d FdA: -dAj = dFdA: dAj + Sa dFdA: la) dAj + Siss dF dAicher dAj + ... flat mirrory

dAi - imuge into { same different area

Skip prof: independent of flator curved.

dAi Fdi-dj = dAj dFaj-di Ai Finj = Aj Fji

energy balance

$$f(\vec{r}) = \mathcal{E}_{E_b}(\vec{r}) - \alpha H(\vec{r})$$

$$= \mathcal{E}_{(P)} \left[E_b(\vec{r}) - H(\vec{r}) \right]$$

 $J^{+ot}(\vec{r}) = g^{d}(n) + J^{o}(\vec{r}) + J^{o}(\vec{r}) + EINER$

$$= J(\vec{r}) + S^{(3)}(\vec{r})H(\vec{r})$$

$$= J(\vec{r}) + S^{(3)}(\vec{r})H(\vec{r})$$

$$= J(\vec{r}) + S^{(3)}(\vec{r})H(\vec{r})$$

$$= J(\vec{r}) + S^{(3)}(\vec{r})H(\vec{r})$$

$$(7) + (7) - (7) = (7) + (7)$$

HIT) = JA JUTO dFdA-dAI + HOS(F) diffuse part only after county spearlar reflect: from here => Integral equations. or \$ J(r')uniform.

Set of algebraic equations.