





























































The Radiosity Matrix Equation	32
$B_i A_i = E_i A_i + \rho_i \sum_j B_j A_j F_{j \to i} \qquad $	
Expand for each surface element, and re-arrange to solve for the surface intensities, the B's:	
$\begin{bmatrix} 1-\rho_1F_{1\rightarrow 1} & -\rho_1F_{1\rightarrow 2} & \bullet \bullet & -\rho_1F_{1\rightarrow N} \\ -\rho_2F_{2\rightarrow 1} & 1-\rho_2F_{2\rightarrow 2} & \bullet \bullet & -\rho_2F_{2\rightarrow N} \\ \bullet & \bullet & \bullet & \bullet \end{bmatrix} \begin{bmatrix} B_1 \\ B_2 \\ \bullet \\ \bullet \end{bmatrix} = \begin{bmatrix} E_1 \\ E_2 \\ \bullet \\ \bullet \end{bmatrix}$	
$\begin{bmatrix} -\rho_N F_{N \to 1} & -\rho_N F_{N \to 2} & \bullet \bullet \bullet & 1 - \rho_N F_{N \to N} \end{bmatrix} \begin{bmatrix} B_N \end{bmatrix} \begin{bmatrix} E_N \end{bmatrix}$	
This is a lot of equations!	
Computer Graphics	mb - August 30, 202





































