LAST TIME :

- 1) SPECULAR PARTIALLY SPECULAR
- Z) SEMITRANSPARENT SURFACES | WINDOWS
  - -> REFLECTION /TRANSMISSION COEFF'S
  - -> Z METHOS: RAY TRACING VS. OVERALL NAC BAL.
- 3) NON GRAY SURFACES
- 4) MONTE CARLO SIMULATION

 $\lambda_{12}$   $\lambda_{12}$   $\lambda_{12}$   $\lambda_{13}$   $\lambda_{14}$   $\lambda_{14}$   $\lambda_{15}$   $\lambda_{15}$   $\lambda_{16}$   $\lambda_{17}$   $\lambda_{18}$   $\lambda$ 

\* 0, -> 02 CONVERSION REQUIRED

 $\begin{array}{c}
\lambda_{11}(T_{1},\lambda_{1},\Theta_{1}) \\
\downarrow (\{\xi_{\lambda_{11}}^{\prime},d\lambda_{1}d\theta_{1}\} \\
\xi_{1}(T_{1})
\end{array}$ 

 $dQ_{e,1} = \epsilon_1 \sigma T_1^4 dA_1$ 

N burdles

W= dQe,

 $dP_{A\phi} = i_{Ab}(T_i) \epsilon_{A,i} \cos \theta_i dA_i \cdot d\Delta \Delta d\lambda$ = Ain  $\theta_i d\theta_i d\phi_i$ 

S OVER ALL \$

dP' = ZTT izb Ez, sino, coso, do, did dA,

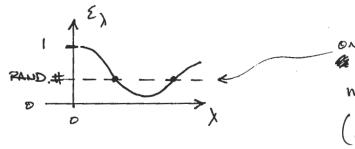
$$d\theta, d\lambda P_{\lambda}' = \frac{ZT i_{\lambda b} E_{\lambda, 1} Ain \theta, 00 A \theta_{1}}{E_{1} \sigma T_{1}^{4}} d\theta, d\lambda$$

PROBABILITY DENSITY

$$P_{\lambda}(\lambda) = \int_{0}^{\pi} P_{\lambda}' d\theta_{\lambda}$$

$$P_0 = \int_0^\infty P_1' d\lambda$$

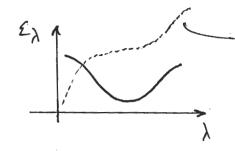
GENERATING PANDOM #'S , FROM 0 -> 1



ONE RAND. # CAN &
CORRESPOND TO
MULTIPLE VALUES

( WORK-AROUND ...

USE & Cumulative PROBABILITY



CHIMILATIVE VALE IS INDNOTONIC

> NO MUNITIPLE VALUES!

$$\begin{cases} P_{\lambda} d\lambda = R_{\lambda} \implies R_{0} \implies \varphi = ZTTR_{0} \end{cases}$$