## Charpter 8

$$\Pi P_{V} = \frac{C/2}{(1+K/2)^{1}} + \frac{C/2}{(1+K/2)^{2}} + \cdots + \frac{C/2}{(1+K/2)^{2}n}$$

$$(M = 2x2) OSu Osamul 151 via V$$

\* PV of Bond = PV of Coupum PM b + PV of Principle n = 30, Par = 1,000, CoupR=10%, K=0.09 1> PV of coupour pmts = C (1+K)-n  $=100(1+0.09)^{-30}$ PVIFA =  $1 - (1+r)^n$  =  $1 - (1.09)^{-30}$ of principle = P (PUIF) 5(1+K)-n =1,000 (1.09)-30 = 75.4 = 1.027.4 + 75.4 = 1.102.8

\* Sensitivity of Bond Prices (Elasticity):

$$\prod_{k} P^{e} = \Delta P \rightarrow \frac{P_{2} - P_{1}}{P_{1}}$$

\*Paration = 
$$\leq \frac{C * t}{(1+k)^t} \div \leq \frac{C}{(1+k)^t}$$

\*Mochified donation Dur\* = Dur 1+K

\* AP = - Dur \* A AY