Masi (P, p) 1P(g=K)=CK pK(1-p)"-K = = = = x 10 (g = x) = = = x c c p x (1-p) n-k =  $= \sum_{n=0}^{\infty} \frac{n!}{n!(n-n)!} \cdot \kappa \cdot \rho^{n} (1-\rho)^{n-n} = \sum_{n=0}^{\infty} \frac{n!}{(n-n)!(n-n)!}$ · pu. (1-p)n-k = = n (n-1)! pk(1-p)n-k =  $=\sum_{k=1}^{\infty}nc_{n-1}p\cdot p^{k-1}(1-p)^{n-k}=np\sum_{k=1}^{\infty}c_{n-1}p^{k-1}(1-p)^{n-k}$ = np #g=np Eg2 = = 2 k2 Cn ph (1-p) n-k Eg2 = Eg(g-1) + Eg Eglg-1) = 2 k(u-1) Cnp" (1-p)"-"=  $= \sum_{k=1}^{\infty} \frac{n! \, \kappa \cdot (k-1)}{k! \, (n-k)!} \cdot p^{k} (1-p)^{n-k} = \sum_{k=1}^{\infty} \frac{n! \, p^{k} (1-p)^{n-k}}{(k-2)! \, (n-k)!}$  $= \sum_{k=2}^{n} n \cdot p^{2} (n-1) \sum_{k=2}^{n-2} p^{k-2} (1-p)^{n-k} = n^{2} p^{2} - n p^{2}$ 切引= Eg2-(Eg)2= 田子(5-1)+ Eg-(Eg)2=  $= n^{3}/p^{2} - np^{2} + np - n^{3}/p^{2} = np(1-p)$ Umbern: Eg=np Dg=np(1-p)