

Def. Fie x o v. 2. discreté. Definin modie la x prin

E[X] = Z x f(x) unde f(x) e o fct. de mosé

suns ponderets

ori de colo ori sorie [1x1 f(x) 100

Les serie oste e divergents stanci quanen a medie no e definite

Proprietoti

a) Des X este contento X=c dunci E[X]=c

de mediei

b) Deci X este o v. 2. pozitive X20 d. E[X]=0

d) Davit si Part z v. 2. 2. 1. X = p. at. AS = Elg d) Davit si Part z variabile a festoare discrete si a, be R at. Elax + b p3 = a Elg + b Elg

e) Fie A = Q un event. s; P(w) = 1, went d. Fig. TA

Al Davi Xs. Y s. + 2 uz. independente at. IE [X] = IEX] INS

Def: X v.a. discrets - moment de ordin k = nedia II [X]

monent contatité ordin k = nedia II [X-a] K]

Davi a = E(x) at E(x-E(x)) s.n. none. t control do ordin KAef: Momental central de ordin 2 s.n. dispersia v.a. X is se not $Var(x) = E(x-E(x))^2$

Definin dedones foodbal o unei v.o. X prin SD(X) = JVor(X) standard aledovie.

Prop an wrister 2) Das X ede o va. cont at Var(x)=0 b) Doux ate o v.z. (directs), st. Va(X)20 c) Dour y ato a v.z. si aeR atomi Var(x+a) = Var(x) d) Dow X este o. v.z. 1: 2 ER at. Var (0X) = 2 Var(x) Op: 5=1=1 xs. (x) = Kor(x) e) Dou X ete ov. 2. (discrets) stori Var(X) = # NF - #X32 A) Das X si Y sont 2. V. 2. integendante of Ver (X+14) = Ver(X) + Ver(X) Variabile destore contine (absolut continue) Nef Fie (S, F, P) un comp de probab si X: 2 - 3 R o u.a. Spran is v.e. X etc contins des exists of fet. positive flexos
a prop of P(XeA) = S flexde, & A CR (intende sa reunivical
and fine from the do intende do intende. turitis f se n. donitate de repartitii Prop. of Layso H xch b) 5+ = 1.