chapter 3 probability

Piscrete v.v Distributions:

OThe Bionomial Distribution!

- When to use?

1- trails "089/411 = 1 -> 471

2 trails are independent

3- In each trail - Failure > q

4 - x : is the number of success in n trails

(n) (p) x (q) n-x

* MY = ECX) = NP

€ V(X)=npq

Opposituation don't have Co
Date: //
12 6
5. (2) The Normal Distribution:
THE TOUCH ON
- F(U) - 1 = = (x-m)2
- over
Has a bell-shaped graph by la
Dexem)=p(x7m)=1
2
mean-m, variance = 02
1
@p(4-0-tx+4+0)=68,76%
Standard normal distribution:
1-convert from X to Z where
* X: Normal Dist rov
z: standard Normal Distr.v
802 = x-m (FC-a)=1-Fca)
1 2 = x-m (x) F(-a) = 1-f(a)
PP(aTXTb)-F(b)-F(a)
(Nour El-houda) —