

(x) \$ -1 ۱ که t (x) dx NZZ(O,V) \*\*\*

transmitted, معما درا humber of bits received in omby can be hudelled by Arome that In a digital Communication Channal, the 5 received in every bigomial Y.V. assume trad the prob. that a bit moent will have approximately the hormal distribution What is the pub. とり Longe & Jamana p = 1x10-5 . If a binomial Y. U With Parameters 24 than 150 or less errors occur) 16 million bits are ,

Normal approximation to

Bisomial

Dishibution:

0  $(X \wedge X)$ D(X 7 (20) need approximate at Sinomial r.v sy a stal normal z.v ۱Į Constinuity Correction " X < x+6.5) 200 ロシンと (16,000,000) (10-5). (1-10-5) (1000)x 7 x+0 5 -NP 1009 J. Kriws

$$b(x \leq x \leq x) = b(x \leq x \leq x) = b(x \leq x \leq x)$$

$$\frac{1}{4} \frac{1}{4} \frac{1}{4}$$

かんナンか 12 )( 12-0.5 6 X 21-0-5 -nP/ X-12

$$\frac{1}{4} (-x)^{2} = \frac{1}{4} (-x$$

TUNDE Approximation V(X-2 C 265-2 X 6 7 x 6.5 Poisson Y.V has a Pavemeter A WET ECK) = VWCX) = X

1 211 alond FXOX4: 126 46 4 Sec 4.5 gradition Numbers approximation is Pol: 46 F. 'X' 2000 Applied Statistics a prob. For engineers" Lood 4.50, 51, 54 4.64, 68 49, 96, 98 1.112, 114, 121 ソのの the end of the manaphon Jen for Dunger of agiven at monder tre Y096.