2017-1245 25 3150849 0 884 0 44534 21245 0) P(E)== 1, P(E)== 1, P(E, NE)=0 -. P(E)P(E) +P(E)== 1, P(E, NE)=0 7.2.34. a) b(0; n,p)= (1-p), b) 1- (1-p), c) b(0; n,p)+ b(1; n,p)= (1-p), + n.p. (1-p), -1 d) 1- (1-p), - np(1-p), -1 1.3.14. P(F2/E)= P(E/F1)P(F1)+P(E/F2)+P(E/F3)P(F3) = 3/8·1/2 = 1 2/1×1/6+3/8·1/2+1/2·1/3 = 15 7.3.22.a) p(s)= 5/s+h, p(3)= h/s+h 6) p(w/s) = p(w), p(w/3)= z(w) 2 zun P(S/W)= P(W|S)P(S) + P(W|S)P(S) = P(W) · STL = P(W)S = P(W)S + $1.4.18. \ E(2) = \sum p(s) \ E(s) \ \leq \sum p(s) (X(s) + Y(s))$ $= \sum p(s) X(s) + \sum p(s) Y(s) = E(X) + E(Y)$ $1.4.38. \ a) \ E(X) + (2000) \ a^{2} |_{1000} + p(X) \geq |_{1000} \geq \frac{1}{1000} = \frac{1}{10}$ $b) \ V = |_{1000} + p(|_{X-|_{1000}} \geq |_{1000}) \geq |_{1000} \geq \frac{1}{1000} = 0.00|$ $\therefore p(|_{X-|_{1000}} \leq |_{1000}) \geq |_{1000} \geq 0.999$ $1.4.48. \ X = X_{1} + \cdots + X_{m_{1}} X_{n}^{2} \geq 1 \ (ith ball falls int. 14 lin)$ $|_{1000} \ (a + |_{1000}) \geq |_{1000} \geq |_{1000} = 0.999$ $+ E(X_{n}) = p(X_{n}^{2} = 1) = \frac{1}{n} \sum E(X) = \sum E(X_{n}^{2}) = \frac{1}{n}$