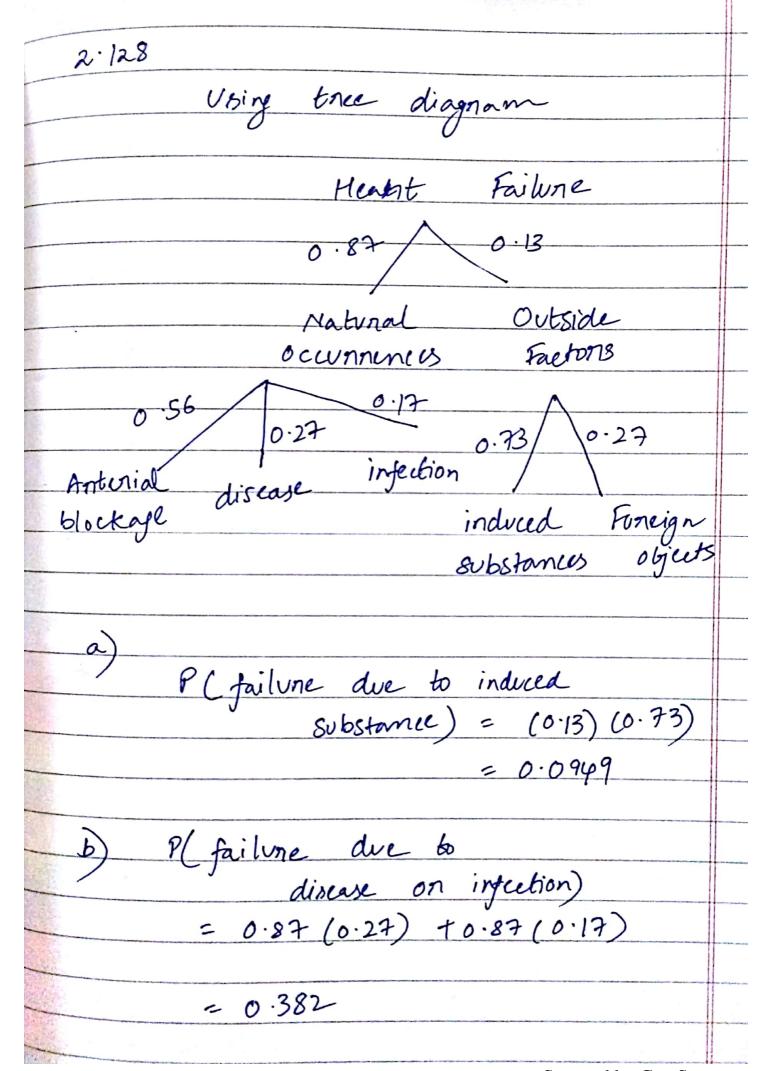


The probability that the cincuit operates is 0-929.



2.102					
Potal = 100 parts					
Length					
Excellent Good					
8 unface Excellent 80 2					
finish Good 10 8					
A = sample has excellent finish					
A = sample has excellent finish B = sample has excellent length					
a) $P(A) = 80+2 = 82 = 20.82$					
100 100					
b) P(B) = 80+10 = 90 = 0.90					
100 100					
c) $P(A B) = P(A \text{ and } B) = 80 = 0.88$ $P(B) = 80+10$					
PCB) 80+10					
a) $P(B A) = P(B \text{ and } A) = 80 = 0.97$	75				
P(A) 80+2					
a) P(B/B) = 0.975					
f) $P(A B') = P(A \text{ and } B') = \frac{2}{2+8} = \frac{2}{10}$	=0.20				
P(B') 2+8 10	and have been seen to be a second or the second of the sec				

Scanned by CamScanner

2.172 2 = identifying a defective item D = defective item is chosen P(I/D) = 0.99 PCD) = 0.009 P(D') = 0.991 P(I 10') = 0.005 P(I'ID) = 0.995 P(I) = P(IID) P(D) + P(ID') P(D') = 0.99 (0.009) + (0.005) (0.991) = 0.0139 The probability that an item succeed for inspection is classified as dejective 13 0.0139

P(DII') =
$$P(DDI')$$
 = $P(T'|D)P(D)$
P(II') = $P(T')$
= $(0.995)(0.991)$ = 0.9999
 $(1-0.0139)$
3.103.
 $X = No.$ of mornings with green lights
as you approach it

Using binomial distribution,
 $P = 0.2 = 2 = 0.8$
a) $P(X = 1) = 5 = 1 = 10.2 = 10.8$
 $P(X = 1) = 5 = 1 = 10.2 = 10.8$
 $P(X = 1) = 5 = 1 = 10.2 = 10.8$
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 $P(X = 1) = 10.2$

3.66	allian est en en en en en en en					
in description to the product of the second state of the second st	XE	Nicked	E charge	The second secon		
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	(f(x)	x -2.29	(x -2.29)	[x-2	-29) flx
0		0.17	-2.29	5.244	0.	991
2		0.35	-0.29	0.084	0.0	129
	3	0.33	0.71	0.504	0.10	56
	ρ	0.15	1.7	2.92	0-9	38
					1.5	24
CDF	1	n x<1	0	6.		
F(X)	= 1		x < 2		0.	
			X<3		- 3	
6.52 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
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3.101 X= No. of times the line is occupied

n=10 p=0.4 q=0.6

a) $P(x=3) = {}^{10}C_3(0.4)(0.6) = {}^{120(0.064)(0.627)}$ = 0.2149

P(x = 0) = 1 - P(x = 1) = 1 - P(x = 0) $= 1 - \left[{0 \cdot 0 \cdot (0 \cdot 4)^{0} \cdot (0 \cdot 6)^{0}} \right] = 1 - \left[{0 \cdot 6}^{0} \cdot 6 \right]^{0}$ = 0.994

e) E(x) = np = 10(0.4) = 4