Deter	August 1 Day.	BSSE2305
Date:_		Section A.
	Probability & Statistics	1
02.92	P _ _	
	[0.9] [0.9] [0.9]	
	A	
	P(A): 0.95 P(B): 0.7 P(1).0.8 P(D): 0.9	
	Assume the component fail independently means syst	en
	will work - UD Component Awards.	
	@ lither B or ((or both works) as in par	allel.
	3 D works.	
	P(System works)=?	
	V	
	P(system words). P(A N (BUC) ND)	
	P(system worlds): P(A 11 (BUC) 11 D) = P(A) . P(BUC) . P(D) as in	dependent
	= 0.95 . P(BUC) . 0.9.	
	P(B(1C) = ?	
	P(BUC) => (BEC)	
	P(BUC) - 1 - P(B'UC') => (B) (B)	
	= 1 - P(B) · P(C')	
	$= 1 - (1 - P(B)) \cdot (1 - P(C))$	
	= 1 - (1-0.7).(1-0.8)	
	$= 1 - (0.3) \cdot (0.2)$	
	= 1 - 0.06	
	z 0.94	
	P(system words) = P(A). P(BUC).P(D)	
	- 0.95 . 0.94 . 0.9	
	- 0.8037	
	≈ 0.804	