

the three Factor experiments

the method of three Factor

Jiskl = 4 + xi + Bj + 8 k + (xB)is

+ (x8)ik + (BB)jk + (BB)jk

+ Eijkl

(x B) is k all man effects of Factors A, Bic (XB) is (XB) is three factor interaction interaction interaction effect.

	CI			(1)			
100	101	br	103	121	bı	63	
a	量	10	11	=	重	=	
aı	1	直	=	=	=	5	
as	111	H	茅	(3)		=	
a=3,8=3,C=2,N=4							
STATE OF TAXABLE PARTY.		0	0.0	100		I	

5.5	df	M·s	F
SSA	a-1	S1 = S8	Fi= Si
SSB SSC	b-1		F2= St
	(a-1)(b-1)		1
	(a-1)(c-1)		$F_i = \frac{S_i}{c_i}$
SSBC	(b-11 (C-1)		S
	(a-1)(b-1)(c-1)	S2 SSE	
SSE	abc(n-1)	S = abc(n-1)	

Ftable (oxidf, abc(n-1))
If Figure > Ftable => (e)oct

the un baised estimates of Wasiances (block case fundamized) 8=5, 8x = 52-5 $\hat{S}_{B}^{1} = \frac{\hat{S}_{2}^{2} - \hat{S}^{2}}{1 - \hat{S}^{2}}$ Estimated unitable in case of two factor S=S2, S2= 51-52 $\hat{S}_{B}^{2} = \frac{S_{1}^{2} - S_{3}^{2}}{280}, \hat{S}_{KB}^{2} = \frac{S_{3}^{2} - S_{3}^{2}}{280}$ Construct Comparison W1 = 9, 41 + 9242+ 9343 + --W= K141= K242+ K343+ 2 Ci = 29: * Ki = 0-0 Columnia 55 W1 = (59: 4;)2 ■ のパラのき = (9,4, +9,4,+9,43+.1)2 = X SSW2 = (2 Ki];) = (K:4, - K:42+K343+m)2 N (Ki+(-Ke)=+(12)=+-) 5.5 df 51 = SSuper affejales (35.39) K-1 (+) and (+-+) (----)aud(--) y F(142) = 32 (SSE) K(N-1) S= SSE EYVOY If Fillus() > Fagg => reject w;

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O = given