

the three factor expariments

the method of three factor

disk p = 4 + ai + Bi + 8 k + (a B)i;

+ (a b)ik + (Bb)ik + (acbs)

+ Eikl

1=1,2,3,-,a 1=1,2,3,-,b K=1,2,3,-,c X: 1,3,-,c X: 1,3,-,c Factors A,B,C

(or B)is, (or 6)ek. (B8)sk are Ewo Factor interaction.

INTERPOLISH IS the factor interfaction effect.

	-				the same of the sa				
- 30.3	- 1	ופ	72	1 73	171	bı	69		
a,		=		E	=	=	H		
					=	=			
aı		Ī	<i>,</i> =		=	=			
93/		-1	=		(=)	_	_		
7		Ŧ		F		=	=		
ne	₹ .	L	. 7	r = 2	. 1	= 4			
a=3, b=3, c=2, N=4									
Sal									
	1 10		M·s			I			
5.5		df		10.48			-		
SSA		2-1		51 = <u>SB</u>		Fi=	:		
35/1		6-		ak		E	5		
SSB		0		8		/2	52		
SSC						1			
SSAB	10000	1)(E				1	_2		
KAC	(a -1	(a-1)(C-1)		4		F	= 52		
SSBC	0	1110	-0			1.0	5 ^L		
SSIC	(B-		Ma d						
SSABC	(a1	(b-1	1(2-1		177227				
The second second	-1	c(n	-11	52_5	SE_				
SSE	ab	c(n	-9	ab	C(A-1)				
	+ 0			THE PERSON NAMED IN	The second second				

Feable (x, df, abc(n-1))
if Figure > Feable => (e)xct

the un baised estimates of Wastonces (block case randomized)

$$\hat{S}^{2} = S^{2}, \quad S^{2}_{\alpha} = \frac{S^{2} - S^{2}}{b} \quad \Box \quad \Box \quad \Box \quad \Box$$

$$\hat{S}^{1}_{B} = \frac{S^{2} - S^{2}}{K} \quad \equiv \quad \Box$$

Estimated warrance in case of two factor $\hat{S} = S^2, \hat{S}_{\alpha}^2 = \frac{S_1^2 - S_2^2}{b \cdot n}$ $\hat{S}_{B}^2 = \frac{S_2^2 - S_3^2}{a \cdot n}, \hat{S}_{\alpha B}^2 = \frac{S_3^2 - S^2}{n}$

CONSTRUCT COMPACISON

WI = 9 14 + 92492+ 93434 --WI = 1 41 + 12 + 13 + 13 + --

= \frac{(9, 4, 49, 4, 49, 4, 4)^2}{rc (9, 49, 49, 4-1)} = X

= \frac{(\frac{\k_1 \pi_1}{\pi_2}}{\k_1 \pi_1 \pi_2} = \frac{(\k_1 \pi_1 - \k_2 \pi_2 \pi_3 \pi_4 \pi_

Haria Com	5.5	9k	M٠٤	F
9919065	(35.19)	K-1	51-55-pr	Em = Si2
(-) and ()	X	D	Sh = SS() (1)	L 25
(,·)=d(-,-)	C	0	5. = 55(1m()	FONCT ST
ENO	SSE	k(n-1)	2, ZZE	F() NOT 53
	1	IS (ME1)	$\Delta = \frac{1}{K(n-1)}$	3

if F() vs() > Fagg => reject w;