

C:\WINDOWS\Desktop\ANALYSIS 2.ihm

File View Matrices Statistics Help

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	1	2	3	4	5	6	7	8	9
1	A				B	C			
2		1	0	0	0	5.21	2500		
3		0	1	0	0	1.9	1300		
4		0	0	1	0	-8.41	1100		
5		0	0	0	1	2.93	1600		
6		-1	1	0	0	3.27	1400		
7		-1	0	1	0	13.58	885		
8		-1	0	0	1	2.18	1075		
9		0	-1	1	0	10.21	1802		
10		0	-1	0	1	-1.13	1429		
11		0	0	-1	1	-11.35	2000		

**Analysis**

Analysis Tools

- Analysis Of Variance
- Least squares estimator
- The coefficient of determination
- The confidence intervals
- IBRAHIM OMAR HAROON**
- Residual Analysis

OK Cancel

جامعة السودان للعلوم والتكنولوجيا - كلية الدراسات العليا كلية الهندسة - قسم المساحة

01:05 ص

The main program (Ibrahim Omar Haroun):

A				B	W	INV(A'WA)				SIGMA
1	0	0	0	5.21	2500	0.00023	0.00011	0.0001	0.0001	0.0167523
0	1	0	0	1.9	1300	0.00011	0.00027	0.00015	0.00013	0.016209
0	0	1	0	-8.41	1100	0.0001	0.00015	0.00028	0.00015	0.0159013
0	0	0	1	2.93	1600	0.0001	0.00013	0.00015	0.00026	0.0161299
-1	1	0	0	3.27	1400					
-1	0	1	0	13.58	885					
-1	0	0	1	2.18	1075					
0	-1	1	0	10.21	1802					
0	-1	0	1	-1.13	1429					
0	0	-1	1	-11.35	2000					0.01625

  

-1-	A				B	W	INV(A'WA)				SIGMA
	1	0	0	0	5.21	2500	0.00023	0.00011	0.00011	0.0001	0.01677
	0	1	0	0	1.9	1300	0.00011	0.00027	0.00016	0.00012	0.018
	0	0	1	0	-8.41	1100	0.00011	0.00016	0.00036	0.00008	0.02262
	0	0	0	1	2.93	1600	0.0001	0.00012	0.00008	0.00031	0.01769
	-1	1	0	0	3.27	1400					
	-1	0	1	0	13.58	885					
	-1	0	0	1	2.18	1075					
	0	-1	1	0	10.21	1802					
	0	-1	0	1	-1.13	1429					
*	0	0	-1	1	-11.35	2000					0.01877

Close

-2-	A	B	W	INV(AWA)				SIGMA			
	1	0	0	0	5.21	2500	0.00023	0.00011	0.0001	0.0001	0.01789
	0	1	0	0	1.9	1300	0.00011	0.00032	0.00015	0.00009	0.01755
	0	0	1	0	-8.41	1100	0.0001	0.00015	0.00028	0.00015	0.01708
	0	0	0	1	2.93	1600	0.0001	0.00009	0.00015	0.0003	0.01729
	-1	1	0	0	3.27	1400					
	-1	0	1	0	13.58	885					
	-1	0	0	1	2.18	1075					
	0	-1	1	0	10.21	1802					
	0	0	-1	1	-11.35	2000					
*	0	-1	0	1	-1.13	1429					0.01745

  

-3-	A	B	W	INV(AWA)				SIGMA			
	1	0	0	0	5.21	2500	0.00023	0.00011	0.0001	0.0001	0.01813
	0	1	0	0	1.9	1300	0.00011	0.00032	0.00009	0.00012	0.02234
	0	0	1	0	-8.41	1100	0.0001	0.00009	0.00035	0.00015	0.01746
	0	0	0	1	2.93	1600	0.0001	0.00012	0.00015	0.00026	0.01615
	-1	1	0	0	3.27	1400					
	-1	0	1	0	13.58	885					
	-1	0	0	1	2.18	1075					
	0	-1	0	1	-1.13	1429					
	0	0	-1	1	-11.35	2000					
*	0	-1	1	0	10.21	1802					0.01852

Close

-4-	A	B	W	INV(AWA)				SIGMA			
	1	0	0	0	5.21	2500	0.00026	0.00011	0.0001	0.00007	0.01778
	0	1	0	0	1.9	1300	0.00011	0.00027	0.00015	0.00014	0.01623
	0	0	1	0	-8.41	1100	0.0001	0.00015	0.00029	0.00016	0.01657
	0	0	0	1	2.93	1600	0.00007	0.00014	0.00016	0.0003	0.01731
	-1	1	0	0	3.27	1400					
	-1	0	1	0	13.58	885					
	0	-1	1	0	10.21	1802					
	0	-1	0	1	-1.13	1429					
	0	0	-1	1	-11.35	2000					
*	-1	0	0	1	2.18	1075					0.01697

  

-5-	A	B	W	INV(AWA)				SIGMA			
	1	0	0	0	5.21	2500	0.00025	0.00011	0.00008	0.00009	0.01768
	0	1	0	0	1.9	1300	0.00011	0.00027	0.00015	0.00013	0.01697
	0	0	1	0	-8.41	1100	0.00008	0.00015	0.00032	0.00016	0.01658
	0	0	0	1	2.93	1600	0.00009	0.00013	0.00016	0.00026	0.01621
	-1	1	0	0	3.27	1400					
	-1	0	0	1	2.18	1075					
	0	-1	1	0	10.21	1802					
	0	-1	0	1	-1.13	1429					
	0	0	-1	1	-11.35	2000					
*	-1	0	1	0	13.58	885					0.01686

Close

-6-	A	B	W	INV(A'WA)				SIGMA			
	1	0	0	0	5.21	2500	0.00027	0.00007	0.00009	0.00009	0.0215
	0	1	0	0	1.9	1300	0.00007	0.00033	0.00016	0.00014	0.01718
	0	0	1	0	-8.41	1100	0.00009	0.00016	0.00029	0.00015	0.01591
	0	0	0	1	2.93	1600	0.00009	0.00014	0.00015	0.00026	0.01619
	-1	0	1	0	13.58	885					
	-1	0	0	1	2.18	1075					
	0	-1	1	0	10.21	1802					
	0	-1	0	1	-1.13	1429					
	0	0	-1	1	-11.35	2000					
*	-1	1	0	0	3.27	1400					0.0177

  

-7-	A	B	W	INV(A'WA)				SIGMA			
	1	0	0	0	5.21	2500	0.00026	0.00015	0.00015	0.00017	0.01683
	0	1	0	0	1.9	1300	0.00015	0.00032	0.0002	0.00022	0.01623
	0	0	1	0	-8.41	1100	0.00015	0.0002	0.00034	0.00025	0.01698
	-1	1	0	0	3.27	1400	0.00017	0.00022	0.00025	0.00045	0.02111
	-1	0	1	0	13.58	885					
	-1	0	0	1	2.18	1075					
	0	-1	1	0	10.21	1802					
	0	-1	0	1	-1.13	1429					
	0	0	-1	1	-11.35	2000					
*	0	0	0	1	2.93	1600					0.01779

Close

-8-	A				B	W	INV(A <sup>1</sup> WA)				SIGMA
	1	0	0	0	5.21	2500	0.00025	0.00014	0.00015	0.00013	0.01684
	0	1	0	0	1.9	1300	0.00014	0.00031	0.00021	0.00017	0.01713
	0	0	0	1	2.93	1600	0.00015	0.00021	0.00042	0.00021	0.01684
	-1	1	0	0	3.27	1400	0.00013	0.00017	0.00021	0.00029	0.01716
	-1	0	1	0	13.58	885					
	-1	0	0	1	2.18	1075					
	0	-1	1	0	10.21	1802					
	0	-1	0	1	-1.13	1429					
	0	0	-1	1	-11.35	2000					
*	0	0	1	0	-8.41	1100					0.01699

  

-9-	A				B	W	INV(A <sup>1</sup> WA)				SIGMA
	1	0	0	0	5.21	2500	0.00026	0.00017	0.00014	0.00013	0.01822
	0	0	1	0	-8.41	1100	0.00017	0.00042	0.00023	0.0002	0.01714
	0	0	0	1	2.93	1600	0.00014	0.00023	0.00033	0.00018	0.01592
	-1	1	0	0	3.27	1400	0.00013	0.0002	0.00018	0.00029	0.01716
	-1	0	1	0	13.58	885					
	-1	0	0	1	2.18	1075					
	0	-1	1	0	10.21	1802					
	0	-1	0	1	-1.13	1429					
	0	0	-1	1	-11.35	2000					
*	0	1	0	0	1.9	1300					0.01711

Close

-10-	A	B	W	INV(A'WA)	SIGMA					
0	1	0	0	1.9	1300	0.00055	0.00026	0.00025	0.00024	0.01916
0	0	1	0	-8.41	1100	0.00026	0.00034	0.00022	0.0002	0.01622
0	0	0	1	2.93	1600	0.00025	0.00022	0.00035	0.00021	0.0159
-1	1	0	0	3.27	1400	0.00024	0.0002	0.00021	0.00032	0.01791
-1	0	1	0	13.58	885					
-1	0	0	1	2.18	1075					
0	-1	1	0	10.21	1802					
0	-1	0	1	-1.13	1429					
0	0	-1	1	-11.35	2000					
*	1	0	0	5.21	2500					0.0173

  

Since :	
(1)	0.01877
(3)	0.01852
(6)	0.0177
(7)	0.01779

  

> 0.01755	we dismiss it
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Close

From the result we discard the lines :

3 – 4

B.M – 3

1 – 3

1 – 4

With Sigma greater than 0.0175 to obtain the required precision for network design.





