

Análisis de la Corriente, 723 (Experimento final B&B)
Box Benken_706B_ortogonal_09.04.2006.sgp (B&B_design_for_all_cases_09042006.sfx)
27/08/2006 2:15 p.m.

Analysis Summary

Dependent variable: Ol_y_Ona_723

Factors:

- Carga
- Vapor_E530
- Presión_C525
- Nivel_V540
- Vapor_E532

Number of complete cases: 46

The StatAdvisor

This procedure performs a multifactor analysis of variance for Ol y Ona 723. It constructs various tests and graphs to determine which factors have a statistically significant effect on Ol y Ona 723. It also tests for significant interactions amongst the factors, given sufficient data. The F-tests in the ANOVA table will allow you to identify the significant factors. For each significant factor, the Multiple Range Tests will tell you which means are significantly different from which others. The Means Plot and Interaction Plot will help you interpret the significant effects. The Residual Plots will help you judge whether the assumptions underlying the analysis of variance are violated by the data.

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Analysis of Variance for Ol y Ona 723 - Type III Sums of Squares

Source	Sum of Squares	Df	Mean Square	F-Ratio	P-Value
MAIN EFFECTS					
A:Carga	36,6435	2	18,3218	6,81	0,0032
B:Vapor E530	19,9893	2	9,99464	3,72	0,0344
C:Presión C525	198,48	2	99,2401	36,89	0,0000
D:Nivel_V540	61,7483	2	30,8741	11,48	0,0001
E:Vapor_E532	42,3923	2	21,1962	7,88	0,0015
RESIDUAL	94,1503	35	2,69001		
TOTAL (CORRECTED)	453,977	45			

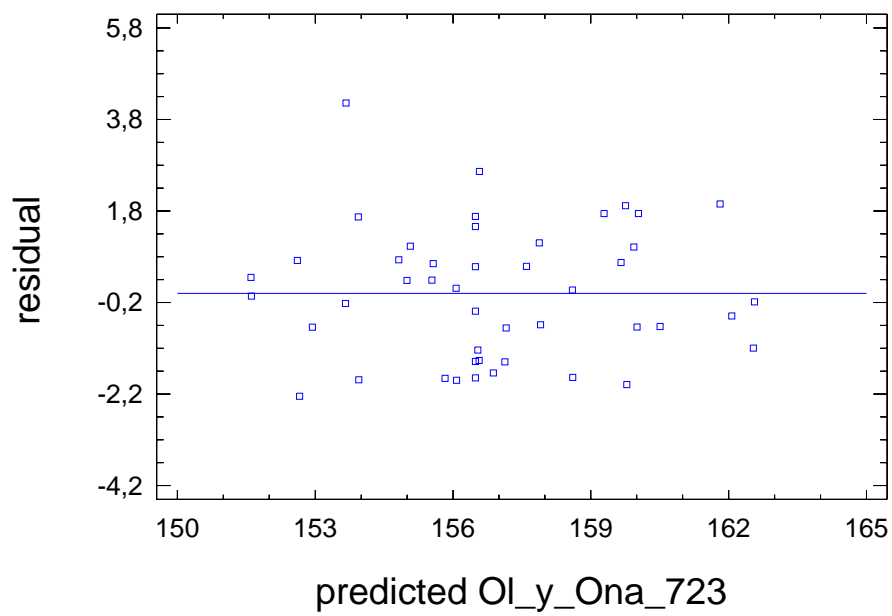
All F-ratios are based on the residual mean square error.

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The ANOVA table decomposes the variability of Ol y Ona 723 into contributions due to various factors. Since Type III sums of squares (the default) have been chosen, the contribution of each factor is measured having removed the effects of all other factors. The P-values test the statistical significance of each of the factors. Since 5 P-values are less than 0,05, these factors have a statistically significant effect on Ol_y_Ona_723 at the 95,0% confidence level.

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Residual Plot for OI_y_Ona_723



la Corriente, 723 (Experimento final B&B)
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Residual Plot for Ol_y_Ona_723

