Surface finish (Montgomery 2001, page 587)

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Fit				
	N	16		
	R ²	0.790		
	R ² adjusted	0.607		
	RMSE	1.56		

Effect of Model

_	Source	SS	DF	MS	F	p-value
	Difference	73.4	7	10.5	4.30	0.0288
	Error	19.5	8	2.4		
	Null model	92.9	15	6.2		

H0: E(Y | X=x) = μ

The model is no better than a null model $Y=\mu$.

H1: $E(Y | X=x) = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + ...$

The model is better than the null model.

Effect of Terms

Term	SS	DF	MS	F	p-value
A	45.6	1	45.6	18.69	0.0025 ¹
В	10.6	1	10.6	4.33	0.0709 ²
A x B	7.6	1	7.6	3.10	0.1162 ²
C	3.1	1	3.1	1.26	0.2948 ²
A x C	0.1	1	0.1	0.03	0.8767 ²
ВхС	1.6	1	1.6	0.64	0.4465 ²
A x B x C	5.1	1	5.1	2.08	0.1875 ²

H0: $\beta_{Term} = 0$

The term does not contribute to the model.

H1: $\beta_{Term} \neq 0$

The term contributes to the model.

¹ Reject the null hypothesis in favour of the alternative hypothesis at the 5% significance level.

² Do not reject the null hypothesis at the 5% significance level.





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2-way Interaction Effects

