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Abbreviations

k	No. of control factors or process parameters
L_j	The total normalised quality loss for i^{th} trial condition or run
L_{ij}	Quality loss values in i^{th} experimental run for j^{th} quality characteristic
l_{i^*}	Maximum quality loss for i^{th} quality characteristic among all the all the experimental run
L'_{ij}	Normalised quality loss for i^{th} experimental run for j^{th} quality characteristic
n	No. of experimental run
p	No. of responses for quality characteristic
w_i	Weighting factor assigned to j^{th} quality characteristic
y_i	Response or observed quality value in i^{th} quality characteristic
η	S/N ratio
η_m	Mean value of S/N ratio of all experimental run
η_{opt}	Predicted S/N ratio at optimum parameter level
η_j^e	Multiple S/N ratio of i^{th} trial condition or experimental run