

Application of Generalized Taguchi and Design of Experiment Methodology for Rebar Production at an Integrated Steel Plant

Authors : S. B. V. S. P. Sastry, V. V. S. Kesava Rao

Abstract : In this paper, x-ray impact of Taguchi method and design of experiment philosophy to project relationship between various factors leading to output yield strength of rebar is studied. In bar mill of an integrated steel plant, there are two production lines called as line 1 and line 2. The metallic properties e.g. yield strength of finished product of the same material is varying for a particular grade material when rolled simultaneously in both the lines. A study has been carried out to set the process parameters at optimal level for obtaining equal value of yield strength simultaneously for both lines.

Keywords : bar mill, design of experiment, taguchi, yield strength

Conference Title : ICOMIE 2016 : International Conference on Operations Management and Industrial Engineering

Conference Location : Vienna, Austria

Conference Dates : June 16-17, 2016