

Predict Module Shunt for Load Cell Steel Lots

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Declaration

I declare that this thesis is my own work and has not been submitted in any form for another degree or diploma at any university or other institution of tertiary education. Information derived from the published or unpublished work of others has been acknowledged in the text and a list of references is given.

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Abstract

Load cell is a transducer which converts force into a measurable output. There are many varieties of load cells and strain gage-based load cells are heavily used for weighting systems. To acquire the performance, load cell containing strain gages, module shunt, module gages as a combined circuit. Module shunt does the bigger task to Reduce mV/V value change against temperature. Centering is the process which introduce the module shunt for the upcoming loadcell steel lot. Since the chemical and mechanical properties of the steel bars are differ, the performance of the load cell may be vary. This centering process can be optimize by analysing historical data of chemical composition and Centrering results of the supplier lots. Through the data analysing proper module shunt may be found. That will save lots of time and operations of the centering process.

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