



Actuation System Design

By Pranibesh Mandal

LAP Lambert Academic Publishing Dez 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x4 mm. This item is printed on demand - Print on Demand Neuware - The main objective of the present work is to design a set up for carrying out a parametric analysis of a dual-mode spray cooling in a laboratory prior to the industrial implementation of a compact heat-treatment system for imparting a dual-phase micro-structure to the treated steel sheet. Within the scope of the present work the following objectives are aimed towards: 1. Design of an electro-hydraulically actuated laboratory-scale process line involving a bay extending from the furnace up to the spraying system, a sample-holding system. 2. Selection and design of the electro-hydraulic actuation system to meet the desired speed of reciprocation. 3. Performance analysis through modeling and simulation of the actuation system in Matlab/Simulink. 4. Preliminary design of a closed loop control if necessary. 72 pp. Englisch.



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