

Design of an automatic charging system for a blast furnace using PLC S7 300

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Abstract: In the context of steel production increasingly focusing on efficiency and safety, automating the charging process into the blast furnace is a necessary solution. This topic focuses on building an automatic system using the S7 300 PLC to optimize the process, minimize errors, and increase overall productivity. Through theoretical research combined with practical implementation, the topic is expected to achieve the main goal of improving blast furnace operational efficiency through this advanced PLC system.

Keywords: Automation, Blast furnace, PLC S7 300, Steel production process, Technology optimization