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Modeling A Fuzzy Logic System Using Central Composite Design

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Abstract: Fuzzy Logic has been intensively used for modeling complex process, for the design of experiments, and in statistics for approximating variables. This paper presents a new Fuzzy Logic System supported in Central Composite Design, used to analyze and model a machining process. The results indicate that this hybrid approach is a good alternative method for modeling and predicting outcomes during a machining process.

Keywords: Fuzzy Logic System, Central Composite Design, Modeling, Machining Process