

# ENHANCING FAILURE MODE AND EFFECTS ANALYSIS WITH TRIZ

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## Abstract

Product during concept formulation, development and production process, engineers often use FMEA to assess. Thought this method engineer can pin point the problems and proceeds with systematic analysis and assumed possible solutions, to evaluate the progress before and after. In the past FMEA can only target a specific outcome arise from the failure component and perform adjusted evaluation, but the adjusted failure could cause other failure to occur in the model were never discussed. If a failure component were adjusted, the adjusted failure component could cause more failure in the system, which is contradiction. Currently the most widely use of engineering variance contradiction solution model was TRIZ. Therefore this thesis tries to use the concept TFMEA (Failure Mode and Effects Analysis using TRIZ), by applying tool of TRIZ to strength the engineering problem analysis and solving ability of FMEA

Keyword :