

Expert System for Administration of Inspections

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Abstract

Whenever environment allows for a more efficient application of the advanced methods published in books or articles, such method must necessarily be applied in practice. One of the major reasons why the numerous methods are ignored is the lack of experts who could make selections of proper inspection method. An expert system which would perform as if each factory had a resident expert is developed.

The expert system is mainly comprised of three parts. The first part presents the performance measures of the inspection methods currently used or inquired. The system includes almost all inspection methods presented in Schilling's book. The second part presents an appropriate inspection method by in-putting various environments through the user interface. The third part prints the inspection methods in accordance with the format which will be used in the field, stores the inspection results that follow, and then administers the acceptance inspection as a system by considering the past results.

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