

Reliability Measures Calculation of Supermarket Refrigeration System

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This paper presents a method for calculation the reliability measures of a multi-state supermarket refrigeration system, where the system and its components can have different performance levels ranging from perfect functioning to complete failure. The suggested approach is based on the Markov reward models for computation of reliability measures for multi-state system. Corresponding procedure for reward matrix definition is suggested. A numerical example is presented in order to illustrate the approach.