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Study on “Test Information Entropy”

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Abstract: To describe the randomness and uncertainty of engineering tests' result, Test Information Entropy was presented. The similarities and differences between Test Information Entropy and usual information entropy were discussed on the aspects of purpose, requirement, basic model and mathematical tool, etc. Furthermore, the Test Information Entropy of high reliability product with zero-failure was given. Two application examples of Test Information Entropy show that it is feasible for application of Test Information Entropy.

Key words: military chemistry and technique of pyrotechnics; Test Information Entropy; communication information entropy; reliability test information entropy



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