GLOBAL RELIABILITY EVALUATION OF DISTRIBUTED COMMUNICATION NETWORKS

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ABSTRACT

This paper presents an efficient method to compute the global reliability of a distributed computer mesh network. In doing so, the paper proposes an algorithm which is based on edge deletion approach to enumerate all the spanning trees for a large complex computer communication network. These spanning trees are further used as an input to multi-variable inversion-based sum of disjoint product approach to obtain the reliability expression. The algorithm has been illustrated by suitable.

KEY WORDS: Network Reliability, DCN, Spanning Tree, Global Reliability MVI.

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