

Increasing Reliability of Coherent Systems by Rearranging the Components with Independently Distributed Lives

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In this paper we consider the system reliability of coherent systems consisting of components with independently distributed lives. In reliability engineering, increasing the system reliability is an important issue, which can be achieved in various ways, such as, by using high quality components, by reducing the operational load on the components, by implementing better maintenance etc., but selecting the optimal way is a difficult job. Here an attempt has been made to increase the system reliability of coherent systems by rearranging the components pairwise using various component importance measures.