

عنوان مقاله:

On the Network Reliability under Shock Models

محل انتشار:

فصلنامه بین المللی مهندسی صنایع و تحقیقات تولید، دوره 30، شماره 2 (سال: 1398)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

In the study of system reliability and survival analysis, the reliability function, the mean residual lifetime, and the hazard rate are important measures factors. Besides, they provide helpful tools to analyze the maintenance policies and burn-in of a system. This study considers a network containing n components with two states, up and down, showing whether an element is connected to other parts or not. It is supposed here that the system is subject to shocks that may cause component failure in which the number of crashes at each shock follows a truncated binomial distribution, and the process of shocks is associated with nonhomogeneous Poisson. The reliability function, the mean residual lifetime, and the hazard rate of this network are investigated under the shock model by experimenting them on a real system

کلمات کلیدی:

.Network reliability, Shock model, T-Signature, Mean residual lifetime, Hazard rate

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<https://civilica.com/doc/992132>

