

NONLOADED MULTIPLE REDUNDANCY OF A SYSTEM BY ELEMENTS WITH DIFFERENT FAILURE DENSITY CHARACTERISTICS

Kostylev V.I., Slichenko M.P.

One of the methods of reliability augmentation of radio system, that is nonloaded multiple redundancy by a random number of elements with different reliability characteristics is analyzed in this paper. Precise analytical expressions for failure density and reliability probability of the system under study are derived. The behavior of this characteristic in various situations is analyzed. Some generalizing deductions are made.