

НАЦИОНАЛЕН СЕМИНАР ПО СТОХАСТИКА

На 24 октомври 2018 г. (сряда) от 14:00 часа в зала 403 на ИМИ – БАН,
доклад на тема:

*"The number of failed components in a k -out-of- n system consisting of
heterogeneous elements – discrete case"*

ще изнесе Anna Dembińska (Warsaw University of Technology, Poland).

Abstract: In this talk, I will examine properties of k -out-of- n systems when the component lifetimes are discretely distributed. The primary focus will be the random variable which represents the number of failed components upon system failure. For this variate I will present the probability mass function under the most general setting of possibly dependent and heterogeneous components. I will also provide formulas describing conditional probabilities for this variable given some information about the time of system failure. In addition to these results, I will show that, in the special case of series systems, this variable exhibits some aging properties, and we establish several characterizations of probability distributions based on such properties. For illustration, I will give some numerical examples.

The talk is based on joint work with Katherine Davies from University of Manitoba, Canada.

Поканват се всички интересуващи се.