

BIRTH-DEATH MODEL ADAPTATION FOR DESCRIPTION OF TIME EVOLUTION OF THE NEUTRON + SUBCRITICAL MULTIPLYING MEDIUM SYSTEM

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Valuation of averages of random valuables and their dispersions is determined by choice of appropriate probability process for many processes known in science and engineering. The so called instant driving rates are simulated then. In such a case expected values of random valuables and their dispersions may often be presented precisely or approximately in the form of analytical functions of transient rates.

It is a rather general method. That is why it is evident that this method may be used when describing the processes taking place at interacting of a neutron with multiplying medium in nuclear power facilities of various types as well. This is the task to be solved in the work for subcritical multiplying medium.