

ON THE ASSESSMENT OF INCUBATION PERIOD IN THE DISEASES CONTRACTED BY BIOLOGICAL CAUSES USING STOCHASTIC MODEL

S. JAYAKUMAR AND B. ARUNRAJ

Abstract

In this paper, the assessment of incubation period in the diseases contracted by biological causes using stochastic model is given. The duration between the entry of disease causing agent and the appearance of first sign of the disease is termed as incubation period. The time variable of incubation period is assessed and the results were ascertained on the values of $E(T)$; $V(T)$ and $C:V(T)$ observed. Though many models by various assumptions have been developed already, all the models have been developed using the shock models and wear processes. The graphical representation is given on the basis of data obtained.

Key Words : Erlangen distribution, Gamma distribution, Incubation period, Shock model and wear process.

Ascent Publication House: [http:// www.ascent-journals.com](http://www.ascent-journals.com)