

Kostawa, B. A.; Shurenkov, V. M.

Some renewal-type theorems. (Russian) Zbl 0623.60106

Teor. Veroyatn. Primen. 32, No. 1, 105-113 (1987).

The authors study the asymptotic behaviour of $f * H_n(x)$ as $n, x \rightarrow \infty$, where $\{H_n(x)\}$ is a sequence of renewal functions corresponding to the sequence $\{G_n(x)\}$ of complex-valued functions and $f \geq 0$ is an arbitrary monotone, bounded and integrable function. $G_n(x)$ are supposed to be close to a probability distribution function, which is non-latticed and has positive and finite first moment.

Reviewer: [L.Mutafchiev](#)

MSC:

[60K05](#) Renewal theory

[30E15](#) Asymptotic representations in the complex plane

Cited in 1 Review

Keywords:

[convolution](#); [asymptotic behaviour](#); [renewal functions](#)