

An Overview of Novel Methods for ASEP Performance Evaluation Based on Q-Function Approximation

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Abstract — The closed-form expression for Q-function does not exist so it is necessary to develop its approximation in order to overcome the difficulties that might appear in diverse research areas. In this paper the authors are presenting overview of two improved models for Q-function approximation with wide applicability. The first one is based on Karagiannidis and Mils model and the second one is based on Borjesson model to obtain the desired improved form of Q-function approximation.

Keywords — Q-function approximation, Gaussian distribution, modulation, Nakagami distribution.

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