

A Performance Analysis of the GBN-ARQ Schemes For Satepite Communications

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Abstract

The tandem-type go-back-N (GBN) scheme has been proposed for satellite communications to reduce the long round trip delay using the on-board processing of satellites. This paper presents the tandem-type go-back-N (GBN) scheme, in which the up-link and the down link use separate go - back- N ARQ's The performance analysis of the point - to -point tandem (GBN) ARQ and Broadcast tandem type (GBN) ARQ schemes is obtained. The mathematical formulas for the throughput efficiency and the optimal packet