

Abstract

In this graduation project considered the design of a transport network with using MPLS technology in Ust-Kamenogorsk city.

In this work such themes, as MPLS commutation's principles, structure of a label and advantages of MPLS are considered. Also, the advisability of building tunnels in the network is determined, pass band and transmission speed of useful load are calculated, and models of acting and projected networks are built.

In economic part the analysis of economical effectiveness, and in part of health and safety the calculations, based on microclimate of the working building, are presented.