



**Cercetarea abordărilor de proiectarea
sistemului de recepție și transmisie pentru
rețeaua globală de stații terestre pentru
comunicații satelitare**

**Research of development approaches of
control system for global network of ground
stations for satellite communications**

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Master Thesis

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SUMMARY

This master thesis shows the analysis and the implementation of the system of transmitting and receiving of National Center for Space Technologies of Technical University of Moldova ground station. This work is a part of project of the Technical University of Moldova students and teachers are involved.

Analyzing theoretically the ground station networks were defined the low points of ground station networks.

In thesis are described the requirements for the cable system an new technologies of transmission an reception.

Analyzing ground station networks resulted in developing National Center for Space Technologies ground station with full equipment description.

The system was developed and tested with success what gives a good feedback of resolving the task.

ABSTRACT

Această teză descrie analiza și implementarea funcțională sistemului de transmisie și recepție a stației terestre a Centrului Național de Tehnologii Spațiale. Lucrarea este partea a unui proiect unde studenții și profesorii a Universității Tehnice a Moldovei sunt implicați.

A fost analizate teoretic rețelele de stații terestre și au fost definite punctele slabe a rețelelor de stații terestre.

În lucrare sunt descrise cerințele și față de sistemele de fidere și tehnologiile noi în domeniul hardware și software în domeniul recepției și transmisiei.

Cercetarea rețelelor de stații terestre a rezultat în implementarea stației terestre a Centrului Național de Tehnologii Spațiale a Universității Tehnice a Moldovei cu descrierea echipamentului folosit.

Sistemul creat a fost elaborat și testat cu succes ceea ce dă dovadă de îndeplinirea sarcinii formulate.

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