

Collection of topics of master's theses for 2020-2021 year

1.	Research of promising technologies for manufacturing structures from composite materials for rocket and space technology
2.	Design of stabilization of small space vehicles
3.	Development and analysis of design-engineering decisions on causing of the special coverages at making of details of space vehicles
4.	Processing of images from an Earth remote sensing satellite using the MATLAB software
5.	Application of GIS technology and remote sensing in the adaptive landscape farming system
6.	Calculation of the optimal orbit of Kazakhstan's remote sensing satellite KazEOSat-3
7.	Research and determine the algorithm for directining the orientation of small space craft
8.	Modeling the motion of the Soyuz-5 launch vehicle and determining the possible fall areas of its stages
9.	Digital spectral image processing based on space radar data
10.	Study of the influence of disturbing factors on the orbital elements of KazSat geostationary spacecrafts
11.	Selection of the optimal method for high-precision determination of the spacecraft orbit from ground-based measurements
12.	Investigation of the influence of satellite mass-dimensional characteristics on its lifetime
13.	Investigation of changes in the maximum angle of attack in the plane case of nanosatellite motion
14.	Research of the spacecraft flight to the target orbit
15.	Study of the motion of a spacecraft with a passive orientation system with extendable rods
16.	Investigation of motion relative to the center of mass of an aerodynamically - gravitationally stabilized satellite
17.	Modeling and controlling the cruise the thrust vector of a cruise missile
18.	Study of the removal of the satellite from the geostationary orbit to a storage orbit
19.	Investigation of the possibility of dangerous approach of a nanosatellite to the orbital stage or to the main payload
20.	Analysis of the effect of nanosatellite design and ballistic parameters on angular motion during descent from low circular orbits
21.	Monitoring the dynamics of agricultural landscapes in the Kegen river basin based on remote sensing data processing
22.	Study of motion dynamics of a low-altitude aerodynamically stabilized nanosatellite
23.	Creation of a guided missile model using MATLAB Simulink package
24.	Analysis of atmospheric pollution in Kegensky district of Almaty region based on remote sensing data processing
25.	Automated intelligent control of small spacecraft based on neural networks.
26.	Anthropogenic transformation of landscapes in the region of the fall of the seperatel parts of carrier rockets

27.	The investigation of the movement control system of the medium –range remote sensing satellite
28.	Technology decoding of natural phenomena and objects of the Almaty region using the example of space images Landsat
29.	Formation of composite of maximum values NDVI of the territory of Kazakhstan calculated on data of MODUS
30.	Research of advanced technologies for manufacturing brazed connections of pipelines for liquid rocket engines.
31.	Development of fail-safe space communication channel of a pico-satellite with the use of turbo codes.
32.	Dynamics of flooding of Koksarai counter regulator
33.	Flood's monitoring of Sharyn river's basin based on data usage of remote sensing of Earth
34.	Research of automatic control system for spacecraft stabilization
35.	The design of the booster to output a space craft on a given orbit
36.	Study of spacecraft motion relative to the center of mass.
37.	Justification of the method and the structural scheme of the space debris recording device
38.	Research and improvement of the accuracy characteristics of the high-accuracy satellite navigation System of the Republic of Kazakhstan
39.	Justification of the effectiveness of algorithms for determining the orientation of small spacecraft
40.	Modernization of the power plant of the spacecraft
41.	Development of an automatic control system for an unmanned aerial vehicle
42.	High precision GNSS for solving GIS and geodesy problems
43.	Development of an initial model of the technological complex system, taking into account the inaccuracy of some information
44.	Development and research of mathematical models of extreme operating conditions of a technological complex
45.	Small Earth remote sensing satellite angular movement system researching software on the Basis of electrical flywheels and with electromagnetic relieving system in the conditions of indistinct environment
46.	The design of satellite platform geostationary telecommunications satellite spacecraft
47.	The design of the booster to output a space craft on a given orbit

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