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# ASTRONOMICAL ROBOTIC NETWORKS

**And**

**OPERATIONAL MULTICHANNEL ASTROPHYSICS**

**Using the example of the MASTER global network.**

## 700 pages



*The first astronomical networks of robotic telescopes appeared in the 21st century, and in your hands is the first monograph in world literature dedicated to describing the principles of the creation and operation of fully robotic telescopes united in a global network. The authors of the monograph are themselves active developers and users of the MSU MASTER network. However, they did not limit themselves to simply* *describing the work and presented the most striking results in various fields of astrophysics - from gamma-ray bursts and the search for sources of gravitational wave bursts to the search for potentially dangerous asteroids and comets. That is why this monograph will be of interest not only to experimentalists working with the acquisition, processing and publication in real time of large databases, but to theoretical physicists and astrophysicists working in the most exciting areas, such as gamma-ray astronomy, gravitational wave astronomy, high particle acceleration physics and ultra-high energy, neutrino extragalactic astronomy, astrophysics of massive and supermassive black holes, researchers of the properties of superdense matter represented in our Universe by white dwarfs and neutron stars, and, finally, ultra-fast astronomical phenomena associated with magnetars: Fast Radio Bursts, short gamma repeaters and anomalous X-ray pulsars.*

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