



Radiophysical and Geomagnetic Effects of Rocket Burn and Launch in the Near-the-Earth Environment

Leonid F. Chernogor, Nathan Blaunstein

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Radiophysical and Geomagnetic Effects of Rocket Burn and Launch in the Near-the-Earth Environment describes experimental and theoretical studies on the effects of rocket burns and launchings on the near-the-Earth environment and geomagnetic fields. It illuminates the main geophysical and radiophysical effects on the ionosphere and magnetosphere surrounding the Earth that accompany rocket or cosmic apparatus burns and launchings from 1,000 to 10,000 kilometers.

The book analyzes the disturbances of plasma and the ambient magnetic and electric fields in the near-Earth environment from rocket burns and launchings from Russia, Kazakhstan, the United States, China, France, and other global space centers. Describing the radiophysical effects of rocket burn and launching in the middle and upper ionosphere, it focuses on the ecological consequences of space exploration—detailing methods for eliminating the harmful effects of space exploration.

Measurements for the studies presented in the book were carried out using numerous radiophysical methods and techniques, including HF Doppler radar, incoherent and coherent scatter radar systems, microwave radar, magnetometer, and optical instrumentation and spectroscopy.

The book analyzes the effects of rocket burns and launchings from 1975 to 2010 in worldwide launch campaigns. This book is an ideal reference for scientists in geophysics and radiophysics, specialists in rocket launching, and ecologists. It is also suitable as a fundamental handbook for graduate and postgraduate students taking physics and cosmic sciences courses at the university level.

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