

SPACE FOR SAFETY AND PROSPERITY OF NATIONS (*pilot title*)

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Authors: Everybody who take part in this book

This book is devoted to 50th anniversary of IAA.

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Foreword

Introduction

Chapter 1. Problems with development and realization of socionatural strategy of the space exploration

In this chapter:

- *Evolution of the different space exploration strategies in the world in XX-XXI centuries are reviewed: from utopian projects and general plans of space activity (1st strategy) – to setting and realization of concrete targets by way of national plans of leaderships and domination in space (2nd) strategy) – to “Integral space plan” for XXI century(3rd strategy) – to worldwide plan of space activity under the aegis of UN in XXI century, in the balance of socium and environment (4th strategy),*
- *Main aims and tasks of space activity XXI century are formulated,*
- *Main dangerous for humanity are specified,*
- *Role of the international space organizations in the determination of the world strategy of the space exploration and in use of achievements of cosmonautics and astronautics in the interesting of humanity.*

Chapter 2. International projects of space systems creation

In this chapter:

- *Existent international projects of development, creation and deployment of space systems (GEOSS, Sentintel Asia, Charte Disaster, DMC, Multifunctional space system of Union State Russia and Belorussia) with different end-use are reviewed,*
- *Comparative analysis of these systems is carried out; their advantages and disadvantages are showed.*

Chapter 3. Creation of the International aerospace system for monitoring of global phenomena is the first step on the way of realization of the unified space exploration strategy.

In this chapter:

- *Role and place of the International aerospace system for monitoring of global phenomena in the realization of the unified space exploration strategy are determined,*
- *Main tasks of the International aerospace system for monitoring of global phenomena are formulated and directions of their solving,*
- *Main principles of structuring of the International aerospace system for monitoring of global phenomena are determined,*
- *Space, air and ground segments (systems, facilities) of the International aerospace system for monitoring of global phenomena are reviewed.*

Chapter 4. Space systems, instrumentations and technologies for safety and prosperity of nations.

In this chapter the review of up-to-date and advanced space systems, instrumentations and technologies for solving different tasks in the interesting of safety and prosperity nations and humanity in whole will be presented:

- *Geoinformational systems, instrumentations and technologies in the interesting of economical activity, nature management and other kinds of activity. Early warning and monitoring of water, soil and atmosphere pollution,*
- *Aerospace systems, instrumentations and technologies for providing the power safety, geoecological safety, safety of water-resource systems, air ecology, etc.,*
- *Comet or asteroid danger, space hazard mitigation,*
- *Other interesting technologies concerning life of people may be reviewed.*

Summary

Information about authors

Note. The book “Space for Safety and Prosperity of Nations” has to be formatted as collection of articles in according with corresponding themes (for example, book *Societal Impact of Space Flight*. Editors: Steven J. Dick and Roger D. Launis. NASA. Office of External relations. History Division. Washington, DC. 2007).