

Review on a Monograph «International Technology Transfer and National Security: Trends, Challenges, Prospects», Written by Omelyanenko V

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ABSTRACT

Review is given to monograph «International High Technology Transfer and National Security: Trends, Challenges, Prospects», which deals with the problems of innovation-based national security providing policy and presents the main important aspects of presented research. The main scientific results are outlined and discussed.

KEYWORDS: *technology transfer; national security; strategies; technological package*

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The monograph «International Technology Transfer and National Security: Trends, Challenges, Prospects», written by Omelyanenko V., is devoted to the theoretical generalization on the basis of the carried-out researches is given, the theoretical generalization is carried out and the decision of an actual scientific problem of use of competitive advantages of high technologies taking into account the international factor is offered.

The monograph constitutes a critical review of trends of development of high technologies and their international transfer as a channel of interaction of global and national innovation systems. The global innovation system within the new structure is characterized by a high level of internationalization of innovations and convergence of high technologies, which creates the need to develop appropriate organizational and economic mechanisms and strategies of the country.

The monograph «International Technology Transfer and National Security: Trends, Challenges, Prospects» covers a large information on peculiarities of high technology development, the channels of their international transfer and the most effective from the point of view of transfer of a complex of implicit knowledge and criteria of transfer

potential is international innovation and technological cooperation.

The monograph gives a general background for trends in the development of high technologies and found that as a result, the components of the innovation system in addition to increasing the endogenous potential of interaction, must also actively form their status within the global innovation system to attract additional resources.

The work treats and summarizes the knowledge on model of space industry development, which takes into account the possibility of implementing the strategy of international cooperation and intersectoral projects. It is proposed to consider a number of country strategies in the high-tech sector, including space, depending on the existing technological potential, opportunities and development goals.

Classification of the effects of international transfer of high technologies, which allows the most complete assessment of the potential of high technologies, the effectiveness of their development and use for the national economy and national innovation system is especially emphasized.

The analysis of efficiency of the international transfer of high technologies needs to be carried out proceeding from the analysis of the technological package integrating a complex of technologies and gives the chance to realize a certain macroproject. The theoretical bases of technological package management are considered in the work, the basic tendencies are analyzed and the basic tasks of management of development of space branch as the international interbranch high-tech complex on the basis of the concept of technological package are defined. The main tool of international innovation and technology cooperation, which ensures the implementation of the principles of parallel development of the components of the technological package and meets the needs of intersectoral cooperation, are international clusters and intercluster relations.

According to the proposed approaches to the optimization of the technological package of the high-tech industry in terms of internationalization of technology transfer and the developed criteria for evaluating the technological package, the analysis of the space industry of Ukraine and space

instrumentation. The obtained calculations showed that the international aspect is the most important at the design and operation stage. At these stages, it is advisable to implement a system of selective development based on foresight and develop an effective mechanism for intersectoral cooperation.

The information in monograph «International Technology Transfer and National Security: Trends, Challenges, Prospects» is given as part of synthetic whole. The chapters provide interesting reading due to the original approach and rich contents. The main achievement of the work lies in a very profound treatment of the applied material. The coverage of monograph is extremely wide.

Some omissions are, however, incidental and in no way prevent the book being a most stimulating and useful. Any attempt to continue the investigation is to be warmly welcomed. The work under review is an outstanding achievement of economic science.

