

Wave Processes in the Innovation and Technological Development of Complex Systems

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key words

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The basis of the modern methodology for substantiating the innovative development of complex systems is the interrelation of the cycles of program-targeted planning with the long Kondratieff waves, the innovative Schumpeter waves and the technological waves of Glazyev.

In this article, we have reviewed the modern innovation-technological concept, formed the classification of wave processes in the innovative-technological development of complex systems, and established the mechanisms for the emergence of waves at different levels of decomposition of a complex system, stages and periods of program-targeted planning.

Further study of wave processes in the development of a complex system will enable us to identify and describe technical, technological and economic phenomena arising from the imposition and combination of various wave processes. It will help to improve the mechanisms for managing the development of complex innovation and technological systems in the direction of adaptation to the new technological order in the conditions of financial and economic instability in the world.

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