

**The Concept of Creation of the System of the Automated Designing of Production Processes of Composite Materials (SAD PCM) from Waste Products of Metal Working**

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**Key words and phrases:** application of CAD/CAE/CAM-systems; manufacture of metal-polymeric compositions; recycling of waste products of metal working; systems of automated designing.

**Abstract:** The concept of creation SAD PCM from waste products of metal working is offered, the structure of the system and the interrelation between its blocks are determined. The operation of the system is based on the application of methods of artificial intelligence and CAD/CAE/CAM-systems. The SAD PCM can enter into uniform system of CALS-technologies in metal working, recycling and processing of waste products.