Russian Engineering Research 2015 vol.35 N9, pages 662-665

## Automated design systems for manufacturing processes

Valiev R., Khairullin A., Shibakov V. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

## Abstract

© 2015, Allerton Press, Inc. A method of formalizing complex manufacturing processes on the basis of multilevel decomposition is proposed. In this approach, standard elements are identified at each level. Principles for formulating individual matrices and flexibly adjustable algorithmic matrices are outlined.

http://dx.doi.org/10.3103/S1068798X15090221

## **Keywords**

algorithm generation, automation, decomposition, design, formalization, manufacturing processes