«Realization APS-planning at custom small-scale manufacturing»

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Problem statement

• Simultaneous making of several order high-tech and science intensive products with complicated structural composition, durable technological process of making, a great number of equipment and workplaces used for cannot solve a problem of planning at custom small-scale manufacturing by choosing possible variants.

• Consider the main characteristics of a production order as a planning and accounting unit in the manufacture of products with a complex technological composition.

• Develop and implement an APS-planning algorithm based on the annealing method

• Evaluate the influence of order characteristics on planning results when building a production plan using the developed APS-planning algorithm based on the annealing method.
Solution methods

• APS-planning algorithm based on the annealing method
• correlation analysis
Conclusions

Results, implementation

• The more difficult the order is the greater the interval between initial and final temperatures must be specified in the source data.

• When optimizing the production plan of order portfolio of simple and medium types their execution time is reduced by 30% compared to making them separately.
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