

MODELS FOR OPTIMAL ATTACHMENT OF CONSUMERS TO SUPPLIERS

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Abstract

The present work is devoted to the study of some possibilities for determining optimal variants for the attachment of consumers to suppliers in the economic systems of supply of raw materials, prime materials, production, services, etc. There are presented several static models for attaching consumers to suppliers, and there are also offered some modifications in order to adapt those to real, practical situations. There are designed a general static model for attaching consumers to suppliers and a model accounting for the carrying capacity of available vehicles, as are done approbations of these models. There are suggested dynamic models for attaching consumers to suppliers, based on: known intensities of production and consumption for the subperiods of the entire planned period; fixed determined demand and the possibility for attachment to a single supplier; equal volume of delivery for all suppliers.

Keywords: *optimization, attachment of consumers to suppliers, dynamic optimization, minimum cost.*