

Global Supply-network Management of Exporting Refinery Products

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Global supply-network management of refinery products involves special features such as exchange rates, tariffs and variable freight rates. In this work, an integrated model is developed for inventory management of storage tanks at global ports, vessel scheduling for transportation among countries, and distribution management for global markets. Moreover, the changes in product prices, exchange rates and world scales are taken into account in the proposed model. The efficacy of this model is shown with a real-scale example.