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Resilience of Supply Chain Networks with Risk of Damaged Shipments

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Abstract: There are cases where a shipment of goods is damaged during transportation. The variability of loss depends on human error during the risk of packaging and transportation. The network design of resilience of supply chain is under the risk of the shipment damage. This paper studies the impact of product shipping costs on the supply chain network and the minimization of transportation risk damage by demonstration the flexibility and the resilience of the network. The objective is to develop a model that reduces the cost of product transportation for the network and for content transportation companies and distribution centers.

Keywords: Resilient, Transportation Disruption, Supply Chain Risk