

# A three-layer supply chain inventory model for non-instantaneous deteriorating item with inflation and delay in payments in random fuzzy environment / Dipankar Chakraborty, Totan Garai, Dipak Kumar Jana, Tapan Kumar Roy

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Abstrak

## **ABSTRACT**

This article focuses on different types of three-layer supply chain models under inflation for non-instantaneous deteriorating item and the retailer has a pre-specified time to settle the account with supplier. The total cost of each those integrated models under inflation is minimized to get the value of total cycle time and the credit period of the three-layer supply chain model.

A numerical example is extracted to solve the proposed three-layer supply chain model using generalized reduced gradient technique. To test the feasibility of the proposed models, sensitivity analyses are explained under different rates of deterioration and inflation and then optimal results are illustrated numerically and graphically.