Content

- List of Published Papers I
- List of Published Papers beyond the Scope of the Thesis III
- List of Accepted Papers VI
- List of Communicated Papers VI
- List of Papers Presented at International Conference VII
- List of Papers Presented at National Conference VIII
- Assumptions - A.1 IX
- Notations - N.1 X

1 Introduction 1

2 Integrated inventory policies for stock-dependent demand under trade credit 16

2.1 Optimal integrated inventory policy for stock-dependent demand when trade credit is linked to order quantity

2.2 Optimal integrated inventory policy for deteriorating items with stock-dependent demand and trade credit-linked to order quantity

2.3 Optimal pricing, shipments and ordering policies for single-supplier single-buyer inventory system with price-sensitive stock-dependent demand and order-linked trade credit
2.4 Optimal inventory policies for single-supplier single-buyer deteriorating items with price-sensitive stock-dependent demand and order-linked trade credit

3 Inventory models for trended demand under two-level trade credits

3.1 Optimal pricing and ordering policies for inventory system with two-level trade credits under price-sensitive trended demand

3.2 Optimal pricing and ordering policies for deteriorating items with two-level trade credits under price-sensitive trended demand

4 Inventory models for deteriorating items for fixed lifetime under two-level trade credits

4.1 Optimal policies for deteriorating items with maximum lifetime and two-level trade credits

4.2 Optimal policies for trended demand and deteriorating items with maximum lifetime under two-level trade credits

4.3 Optimal credit period and lot-size for deteriorating items with fixed lifetime and quadratic demand under two-level trade credits

5 Manufacturing process with disruption under quadratic demand for deteriorating inventory

5.1 Manufacturing process with disruption under quadratic demand for deteriorating inventory
6 Economic production quantity models with rework and random preventive machine time

6.1 EPQ model for trended demand with rework and random preventive machine time

6.2 EPQ model for imperfect production processes with rework and random preventive machine time for deteriorating items and trended demand

7 Economic production quantity model for returned/reworked inventories during imperfect production process under price-sensitive stock-dependent demand

7.1 EPQ model for returned/reworked inventories during imperfect production process under price-sensitive stock-dependent demand

Summary and Future Scope

Bibliography