Inventory management and control is a critical element to the success and overall financial well-being of an organization. Through the application of innovative practices and technology, businesses are now able to effectively monitor their operations and manage their inventory by evaluating sales patterns and customer preferences.

We believe that this book will be a pioneering text book focusing on the research in the inventory control and management. Featuring diverse perspectives on the implementation of various optimization techniques, genetic algorithms, and data mining concepts, as well as research on big data applications for inventory management. This publication is a comprehensive reference source for practitioners, educators, and researchers in the fields of logistics, operations management, and retail management. It is organized in such a way that it is starting from deterministic inventory models and move towards advance inventory models. We are very pleased to see that this book has generated a lot of important insights and new research results on the inventory control and management related problems.

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