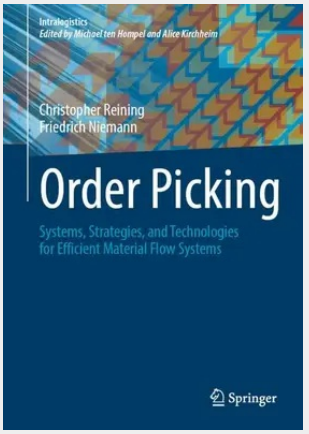
Reining / Niemann

Order Picking

Systems, Strategies, and Technologies for Efficient Material Flow Systems



Commissioning is a central element of internal material flow systems. Within a company, it forms the interface to the customer (distribution) or provides the parts or components as required for subsequent production processes (production supply). There are numerous options for the design of order picking systems, which must be taken into account during planning. Outstanding aspects for the design of a system are the reaction time and the costs. The cost aspect in particular is of great importance nowadays, as order picking is still characterised by a large proportion of manual processes.

The book takes into account existing theories and guidelines on this topic, but expands on them with new insights into the structuring, labelling and calculations of order picking systems, thus providing a comprehensive insight. The book is aimed at students and teachers who have a basic knowledge of logistics issues. It supports the reader with numerous illustrations and structured overviews that simplify familiarisation with the subject matter. Various examples round off the scope of the book and enable the reader to reflect on the knowledge learnt using these practical case descriptions.

Order picking is a key component of internal material flow systems. Within a company, it serves as the interface to the customer in distribution processes or supplies the parts and components needed for subsequent production steps. There are many possible ways to design order picking systems, all of which must be considered during the planning phase. Two of the most important factors in system design are response time and cost. Cost, in particular, plays a crucial role today, as order picking still involves a high proportion of manual work. The book expands on existing theories by incorporating new insights into systems, calculations, and methods for determining time data in order picking. It is aimed at students and teachers who have a basic understanding of logistics-related topics. Numerous illustrations and structured overviews support the reader and make it easier to become familiar with the subject matter. Various examples round off the scope of the book and enable readers to reflect on the knowledge they have acquired through these practice-oriented case studies.

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