

Material Requirement Planning System Design for Manufacturing Firm : Case Study Shoe Manufacturing

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20375525&lokasi=lokal>

Abstrak

Material requirements planning (MRP) is a computerized manufacturing control system that was originally developed by Joseph Orlicky in the early 1960s. Promoted and spread through manufacturing companies, MRP has become the single most widely implemented production and control technique in use.

With the increase of competitiveness among manufacturing companies, effective material control system has been one of critical success factors for manufacturers to be competitive in the competitive market. Effective implementation of MRP has been a cornerstone for an effective production planning and material control.

This thesis captures problems of current material control system of one manufacturing company and covers subjects on analysis and design for effective implementation of MRP. Structured Analysis and Design methods are used for development of process modeling and data modeling.

The outcomes of this study are concept of MRP, requirement specification, data flow diagram, E-R diagram, data model and data dictionary for MRP system analysis and design.