



# Orlicky's Material Requirements Planning, Third Edition (Mechanical Engineering)

By Carol A Ptak, Chad Smith

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## Orlicky's Material Requirements Planning, Third Edition (Mechanical Engineering) By Carol A Ptak, Chad Smith

### The classic MRP work up-to-date with new information on supply chain synchronization

Thoroughly revised, *Orlicky's Material Requirements Planning, Third Edition* reviews the poor business results embedded in most of today's business systems; discusses the core problems causing the results; presents and discusses an alternative pull structure for planning and controlling materials flow; and presents initial results from actual implementations. This new edition reveals the next evolutionary step for materials and supply chain synchronization in the modern manufacturing landscape. This update describes:

- A solution to a chronic MRP-related problem that plagues many manufacturers: shortages of materials, components that block the smooth flow of work through the plant
- A competitive edge through strategic lead time reductions
- Significant reductions in total inventory investment
- Significant increases in service levels

This new edition helps companies tackle three pervasive problems: unacceptable inventory performance; unacceptable service level performance; and high related expenses and waste.

### New to This Edition:

- New section on manufacturing as the heart of the supply chain management, and specific challenges in the 21st century
- Covers supply chain management (SCM) and distribution requirements planning (DRP)
- Discusses the impact of Lean and the Toyota Production System
- Update of integration software
- Reviews the emergence of demand-driven strategies and the MRP "conflict"
- Introduces the new concept of ASR (Actively Synchronized Replenishment) and explains how to incorporate it into business processes

- Explains positioning and how Six Sigma can help achieve results
- In-depth discussion of buffers – how to size, maintain, and adjust them
- New chapter on using MRP tools across the supply chain to enable pull-based approaches
- New case studies which illustrating the techniques described in the book

**Comprehensive coverage:**

The Whole and Its Parts; Manufacturing as a Process; Inventory Management; Prerequisites of MRP 3.0; Traditional Methodology; MRP Logic; Keeping MRP Up to Date; Lot Sizing and Safety Stock; Data Requirements and Management; MRP 3.0; Traditional MRP in Today's Environment; MRP 3.0 Component 1—Strategic Inventory Positioning; Component 2—Buffer Level Profiling; Component 3—Dynamic Buffer Maintenance; Component 4—Pull-Based Demand Generation; Component 5—Highly Visible and Collaborative Execution; Dynamic Buffer Level Profiling; ASR Demand Generation; Applications; Developing Valid Inputs; Making Outputs Useful; Demand Driven Philosophies and MRP; Engineer to Order Environments; Lessons of the Past; Present State; The Future of MRP 3.0

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### **Editorial Review**

#### About the Author

**Carol Ptak** is currently freelancing and was most recently at Pacific Lutheran University as Visiting Professor and Distinguished Executive in Residence after years of executive management experience at PeopleSoft and IBM Corporation as well as many years of consulting expertise. Previously, Ptak served as the vice president and global industry executive for manufacturing and distribution industries at PeopleSoft. Here she developed the concept of Demand Driven Manufacturing (DDM) as an overall product and marketing strategy to align product development, market awareness and demand generation. Her innovative approach is credited with significantly improving the company's position in the manufacturing industry software market and earned her national recognition in publications such as CFO Magazine and the New York Times. Prior to her accomplished record at PeopleSoft, Ptak spent four years at IBM Corporation starting as a member of the worldwide ERP/SCM solutions sales team and quickly rising to the position of global SMB segment executive. From 1993-98, Ptak owned Eagle Enterprises, a consulting firm that promotes company-wide excellence through education and successful implementation.

**Chad Smith** is the co-founder and Managing Partner of Constraints Management Group (CMG: [www.thoughtwarepeople.com](http://www.thoughtwarepeople.com)), a services and technology company specializing in pull-based manufacturing, materials, and project management systems for mid-range and large manufacturers. Clients include LeTourneau Technologies, Boeing, Intel, Erickson Air-Crane, Siemens, IBM, The Charles Machine Works (Ditch Witch), and Oregon Freeze Dry. Chad and his partners have been at the forefront of developing and articulating Demand Driven MRP. Chad is also an internationally recognized expert in the Theory of Constraints (TOC).

### **Users Review**

#### **From reader reviews:**

##### **Lillian Tobias:**

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