Production Planning, Scheduling, and Inventory Control: Concepts, Techniques, and Systems

Second Edition

Edited by

Vincent A. Mabert Operations and Systems Department Indiana University

Colin Moodie School of Industrial Engineering Purdue University



TECHNISCHE HOCHSCHULE DARMSTADT
Fachbereich 1
Gesamtbibliothek
Betriebswirtschaftslehre
Inventor-Nr. : 36, 119
Abstetl-Nr. : A25/446
Sachgebiete:
4,3
4.6

00226257

Production and Inventory Control Division Institute of Industrial Engineers American Institute of Industrial Engineers



Contents

٩

	Page
Overview	1
 "The Design of Production and Inventory Systems for Multifacility and Multiwarehouse Companies", Harvey M. Wagner, Operations Research, Vol. 22, No. 2 (March - April 1974), pp. 278-291. 	2
2) "Production Planning and Control in a National Statistical Agency", David P. Degiel and David M. Carlile, OMEGA, Vol. 2, No. 6 (1974), pp. 751-761.	9
2 Production Planning	
	15
3) "Five Approaches to Aggregate Production Planning", Samuel Eilon, AILE Transactions, Vol. 7, No. 2 (June 1975), pp. 118-181.	16
 Production Switching Hueristics for the Aggregate Planning Problem", Joseph Mellechamp and Robert Love, Management Science, Vol. 24, No. 12 (August. 1978), pp. 1242-1251. 	30
5) "An Integrated Production, Distribution, and Inventory Planning System", Fred Glover, Gene Jones, David Karney, Darwin Klingman, and John Mote, Interfaces, Vol. 9, No. 5 (November 1979), pp. 21-35.	39
3 Inventories	53
6) "Inventory Investment Analysis Using Biased Sampling Techniques", William L. Berry, Myles Marcus and Greg Williams, Management Science, Vol. 23, No. 12 (August 1977), pp. 1295-1306.	54
7) "MRP: A Profitable Concept for Distribution", D. Clay Whybark, Working Paper, Graduate School of Business, Indiana University, Bloomington,	66

Indiana.8) "The Long Island Blood Distribution System as a Prototype for Regional
Blood Management", Eric Brodheim and Gregory P. Prastocos, Interfaces,
Vol. 9, No. 5 (November 1979), pp. 3-20.78

4 Forecasting 9) "Adaptive Forecasting Techniques", Stephen Roberts and D. Clay Whybark, International Journal of Production Research, Vol. 12, No. 6 (1974), pp. 635-65. 10) "The Box-Jenkins Forecasting Technique", Vincent A. Mabert, Proceedings of the AIIE Systems Engineering Conference, Fall 1975, Las Vegas, pp. 143-150. 11) "A Combined Projection – Causal Approach for Short Bange Forecasts"

11) "A Combined Projection – Causal Approach for Short Range Forecasts", Vincent A. Mabert, Arthur V. Hill, International Journal of Production Research, Vol. 15, No. 2 (1977), pp. 153-162.

Page

95

96

107

125

5 Scheduling

- 12) "Applying Database Management to Production Scheduling and Control", Richard J. Coupte, Automation, Vol. 19, No. 8 (August 1972), pp. 32-37.
- 13) "An Approach to Gaining Better Control of the Job Shop Environment", 132
 Ronald K. York, CASM of SME, technical paper #MS77-775.
- 14) "A Simulation-Based Scheduling and Management Information System 141 for a Machine Shop", Surish K. Jain, Interfaces, Vol. 6, No. 1 (November 1975), pp. 81-96.
- 15) "Assembly Line Balancing and the Application of Computer Techniques", Norman A. Schofield, Computers and Industrial Engineering, Vol. 3 (1979), pp 53-69.
- 16) "Mixed-Model Assembly Line Sequencing Problems", Ezey M. Dar-El, 0MEGA, Vol. 6, No. 4 (1978), pp. 313-323.
 - 17) "Operator Scheduling", Elbridge Gerry Keith, AIIE Transactions, Vol. 185 11, No. 1 (March 1979), pp. 37-41.
 - 18) "Efficient Heuristic Solutions to an Airline Crew Scheduling Problem", 190
 Edward Baker, Lawrence Bodin, William Finnegan, and Ronny Ponder, AIIE Transactions, Vol. 11, No. 2 (June 1979), pp. 79-85.

Appendix

Citations of 1974-1979 Literature on Production Planning and Inventory Control. 197