

Contents

Section I: Factory Design

Dilemmas in factory design: paradox and paradigm <i>J. MacGregor Smith</i>	3
---	---

Section II: Unreliable Production Lines

Lean buffering in serial production lines with non-exponential machines <i>Emre Enginarlar, Jingshan Li and Semyon M. Meerkov</i>	29
--	----

Analysis of flow lines with Cox-2-distributed processing times and limited buffer capacity <i>Stefan Helber</i>	55
---	----

Performance evaluation of production lines with finite buffer capacity producing two different products <i>M. Colledani, A. Matta and T. Tolio</i>	77
--	----

Automated flow lines with shared buffer <i>A. Matta, M. Runchina and T. Tolio</i>	99
--	----

Integrated quality and quantity modeling of a production line <i>Jongyoon Kim and Stanley B. Gershwin</i>	121
--	-----

Stochastic cyclic flow lines with blocking: Markovian models <i>Young-Doo Lee and Tae-Eog Lee</i>	149
--	-----

Section III: Queueing Network Models of Manufacturing Systems

Performance analysis of multi-server tandem queues with finite buffers and blocking <i>Marcel van Vuuren, Ivo J. B. F. Adan and Simone A. E. Resing-Sassen</i>	169
--	-----

An analytical method for the performance evaluation of echelon kanban control systems <i>Stelios Koukoumialos and George Liberopoulos</i>	193
---	-----

Closed loop two-echelon repairable item systems <i>L. Spanjers, J. C. W. van Ommeren and W.H. M. Zijm</i>	223
A heuristic to control integrated multi-product multi-machine production-inventory systems with job shop routings and stochastic arrival, set-up and processing times <i>P.L. M. van Nyen, J. W.M. Bertrand, H. P. G. van Ooijen and N. J. Vandaele</i> ...	253
Performance analysis of parallel identical machines with a generalized shortest queue arrival mechanism <i>G. J. Van Houtum, I. J. B. E. Adan, J. Wessels and W.H. M. Zijm</i>	289
A review and comparison of hybrid and pull-type production control strategies <i>John Geraghty and Cathal Heavey</i>	307
Section IV: Stochastic Production Planning and Assembly	
Planning order releases for an assembly system with random operation times <i>Sven Axsäter</i>	333
A multiperiod stochastic production planning and sourcing problem with service level constraints <i>Işıl Yıldırım, Barış Tan and Fikri Karaesmen</i>	345