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A Multiclass Hybrid Production Center in Heavy Traffic (Classic Reprint)

By Vin Nguyen

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from A Multiclass Hybrid Production Center in Heavy Traffic This paper presents an analysis of a hybrid production system that makes multiple types of products, some of which are produced to inventory (make-to-stock), while others are produced in response to actual customer demands (make-to-order). We develop a procedure for performance analysis of the production system depicted in Figure 1. In particular, we envision the production process as a single aggregate operation with first-in-first-out (FIFO) service discipline. Production of make-to-stock items follows a policy of one-for-one replenishment. That is, a base stock level is specified for each type of products; demand is filled from finished-goods-inventory; and each item pulled from inventory triggers a replenishment order to restore the finished-goods-inventory to the desired base stock level. Demands that cannot be met due to insufficient inventory will be considered lost. We propose to study the production system depicted in Figure 1 via the mixed queueing network shown in Figure 2. Station 0 represents the workstation (hereafter interchangeably referred to as workcenter): an arrival at station 0 signals a...



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