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PERFORMANCE MODELING OF AUTOMATED MANUFACTURING SYSTEMS

Performance Modeling Of Automated Manufacturing Systems. N. Viswanadham, the Indian Institute of Science. Y. Narahari, the Indian Institute of Science

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Performance Modeling of Automated Manufacturing Systems, N. Viswanadham and Y. Narahari, Prentice-Hall, Englewood Cliffs, U.S.A., 1992. Price: £45.95. ISBN 0-13-658824-7, xvi+592pp. L. Shi. Department of Industrial Engineering, University of Wisconsin-Madison, 1513, University Avenue, Madison, Wisconsin 53706, U.S.A.

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A unified and systematic treatment is presented of modeling methodologies and analysis techniques for performance evaluation of automated manufacturing systems. The book is the first treatment of the mathematical modeling of manufacturing systems. Automated manufacturing systems are surveyed and three principal analytical modeling paradigms are discussed: Markov chains, queues and queuing networks, and Petri nets.

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Competing Failure Modeling for Performance Analysis of Automated Manufacturing Systems With Serial Structures and Imperfect Quality Inspection

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Abstract The flow of multiple concurrent jobs in an automated manufacturing system (AMS), all competing for a finite set of resources, often leads to a deadlock situa- tion. In this paper, we develop Petri net and Markov chain models for manufacturing systems with block- ing and deadlock.

Performance analysis of automated manufacturing systems ...

Zhenggeng Ye, Zhiqiang Cai, Shubing Si, Shuai Zhang and Hui Yang, 2019, "Competing Failure Modeling for Performance Analysis of Automated Manufacturing Systems with Serial Structures and Imperfect Quality Inspection", IEEE Transactions on Industrial Informatics, pp. 1-12

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