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Qualifications

Ph.D., Industrial Engineering, Chung Yuan Christian University, Taiwan

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Selected Publications

1. Chiu, Singa Wang, Huang, C-C., Chiang, K-W., Wu, M-F. (2015) On intra-supply chain system with an improved distribution plan, multiple sales locations and quality assurance. *SpringerPlus*, 4:687-11 pages.
2. Chiu, Singa Wang, Sung, P-C., Tseng, C-T., Chiu, Y-S. P. (2015) Multi-product FPR model with rework and multi-shipment policy resolved by algebraic approach. *Journal of Scientific & Industrial Research*, 74(10): 555-559.
3. Chiu, Singa Wang, C-T. Tseng, M-F. Wu, P-C. Sung (2014) Multi-item EPQ model with scrap, rework and multi-delivery using common cycle policy. *Journal of Applied Research and Technology*, 12 (3), 615-622.
4. Chiu, Singa Wang, Pan, N., Chiang, K-W., Chiu, Y-S.P. (2014) Integrating a cost reduction shipment plan into a single-producer multi-retailer system with rework. *International Journal for Engineering Modelling*, 27(1-2): 33-41.
5. Chiu, Singa Wang, Chiu, Y-S.P., Li, T-W., Chen, H-M. (2014) A Multi-product FPR model with rework and an improved delivery. *International Journal for Engineering Modelling*, 27(3-4): 111-118.
6. Chiu, Singa Wang, Lee, C-H., Chiu, Y-S. P., Cheng, F-T. (2013) Intra-supply chain system with multiple sales locations and quality assurance. *Expert Systems with Applications*, 40(7): 2669-2676.
7. Chiu, Singa Wang, Chou, C-L., Wu, W-K. (2013) Optimizing replenishment policy in an EPQ-based inventory model with nonconforming items and breakdown. *Economic Modelling*, 35: 330-337.
8. Chiu, Singa Wang, Lee, C-H., Cheng, F-T., Ting, C-K. (2013) Production-shipment policy for EPQ model with quality assurance and an improved delivery schedule. *Mathematical and Computer Modelling of Dynamical Systems*, 19(4): 344-352.

9. Chiu, Singa Wang, Chiu, Y-S. P., Yang, J-C. (2012) Combining an alternative multi- delivery policy into economic production lot size problem with partial rework. *Expert Systems with Applications*, 39(3), 2578-2583.
10. Chiu, Singa Wang, Chen, K-K. and Lin, H-D. (2011) Numerical method for determination of the optimal lot size for a manufacturing system with discontinuous issuing policy and rework. *International Journal for Numerical Methods in Biomedical Engineering*, 27 (10), 1545-1557.
11. Chiu, Singa Wang (2010) Robust planning in optimization for production system subject to random machine breakdown and failure in rework. *Computers & Operations Research*, 37 (5), 899-908.
12. Chiu, Singa Wang, Cheng, C-B., Wu, M-F., Yang, J-C. (2010) An Algebraic Approach for Determining the Optimal Lot Size for EPQ Model with Rework Process. *Mathematical and Computational Applications*, 15 (3), 364-370.
13. Chiu, Singa Wang, Chen, K-K., and Yang, J-C. (2009) Optimal replenishment policy for manufacturing systems with failure in rework, backlogging, and random breakdown. *Mathematical and Computer Modelling of Dynamical Systems*, 15 (3), 255-274.
14. Chiu, Singa Wang, Chiu, Y-S.P., Chuang, H-J., Lee, C-H., (2009) Incorporating machine reliability issue and backlogging into the EMQ model - Part II: Random breakdown occurring in inventory piling time. *International Journal for Engineering Modelling*, 22 (1-4), 15-24.
15. Chiu, Singa Wang (2008) Production lot size problem with failure in repair and backlogging derived without derivatives. *European Journal of Operational Research*, 188 (2), 610-615.
16. Chiu, Singa Wang (2008) An optimization problem of manufacturing systems with stochastic machine breakdown and rework process. *Applied Stochastic Models in Business and Industry*, 24 (3), 203-219.
17. Chiu, Singa Wang, Wang, S.L., and Chiu, Y.P. (2007) Determining the optimal run time for EPQ model with scrap, rework, and stochastic breakdowns. *European Journal of Operational Research*, 180 (2), 664-676.
18. Chiu, Singa Wang (2007) Optimal replenishment policy for imperfect quality EMQ model with rework and backlogging. *Applied Stochastic Models in Business and Industry*, 23 (2), 165-178.
19. Chiu, Singa Wang, Ting, C-K., Chiu, Y.P. (2007) Optimal production lot sizing with rework, scrap rate, and service level constraint. *Mathematical and Computer Modelling*, 46 (3-4), 535-549.
20. Chiu, Singa Wang (2007) Effects of service level constraint and failure-in-repair on an economic manufacturing quantity model. *PI Mech Eng Part B: Journal of Engineering Manufacture*, 221 (7), 1235-1243.
21. Chiu, Singa Wang, C-C. Shih, and Chiu, Y.P. (2007) A revised cost-benefit algorithm for solving ECTEP problem with defective materials in product structure diagram. *PI Mech E Part B: Journal of Engineering Manufacture*, 221 (3), 489-497.
22. Chiu, Singa Wang, Chiu, Y.P., and C-C. Shih (2006) Determining expedited time and cost of the end product with defective component parts using critical path method (CPM) and time-costing method. *Journal of Scientific & Industrial Research*, 65 (9), 695-701.
23. Chiu, Singa Wang and Chiu, Y.P. (2006) Mathematical modeling for production

system with backlogging and failure in repair. *Journal of Scientific & Industrial Research*, 65 (6), 499-506.

24. Chiu, Singa Wang, Ting, C-K. and Chiu, Y.P. (2005) Optimal order policy for EOQ model under shortage level constraint. *International Journal for Engineering Modelling*, 18 (1-2), 41-46.
25. Chiu, Singa Wang, Gong, D-C., and H-M. Wee (2004) Effects of random defective rate and imperfect rework process on economic production quantity model. *Japan Journal of Industrial and Applied Mathematics*, 21 (3), 375-389.