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Educational backgrounds

Ph.D., I.E./O.R. Polytechnic University, New York, N.Y., USA
M.S., Industrial Engineering, New Jersey Institute of Technology, Newark, N.J., USA
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Selected Publications

1. Chiu, Yuan-Shyi Peter, Sung, P-C., Chiu, S.W., Chou, C-L. (2015) Mathematical modeling of a multi-product EMQ model with an enhanced end items issuing policy and failures in rework. SpringerPlus, 4:679, 11 pages.
2. Chiu, Yuan-Shyi Peter, Wu, M-F., Cheng, F-T., Hwang, M-H. (2014) Replenishment lot sizing with failure in rework and an enhanced multi-shipment policy. Journal of Scientific & Industrial Research, 73(10), 648-652.
3. Chiu, Yuan-Shyi Peter, Chen, Y-C., Lin, H-D., Chang, H-H. (2014) Combining an improved multi-delivery policy into a single-producer multi-retailer integrated inventory system with scrap in production. Economic Modelling, 39: 163-167.
4. Chiu, Yuan-Shyi Peter, Lin, L-W., Pai, F-Y., Chiu, S.W. (2014) Finite production rate model with quality assurance, multi-customer, and discontinuous deliveries. Journal of Applied Research and Technology, 12 (1), 5-13.
5. Chiu, Yuan-Shyi Peter, Chiang K-W., Wu, M-F., Chiu, S.W. (2014) Revisiting "integrating a cost reduction shipment plan into a single-producer multi-retailer system with rework" using an alternative approach. International Journal for Engineering Modelling, 27(1-2): 43-51.
6. Chiu, Yuan-Shyi Peter, Lin, H-D., Cheng, F-T., Hwang, M-H. (2013) Optimal common cycle time for a multi-item production system with discontinuous delivery policy and failure in rework. Journal of Scientific & Industrial Research, 72(7): 435-440.
7. Chiu, Yuan-Shyi Peter, Chen, K-K., Cheng, F-T., Ting, C-K. (2013) Reexamination of "Combining an alternative multi-delivery policy into economic production lot size problem with partial rework" Using Alternative Approach. Journal of Applied Research and Technology, 11(3), 317-323.
8. Chiu, Yuan-Shyi Peter, C-C. Huang, M-F. Wu, H-H. Chang (2013) Joint determination of rotation cycle time and number of shipments for a multi-item EPQ model with random defective rate. *Economic Modelling*, 35: 112-117.

9. Chiu, Yuan-Shyi Peter, Lin, H-D. (2013) An Innovative Blemish Detection System for Curved LED Lenses. *Expert Systems with Applications*, 40(2): 471-479.
10. Chiu, Yuan-Shyi Peter, Chen, K-K., Ting, C-K. (2012) Replenishment run time problem with machine breakdown and failure in rework. *Expert Systems with Applications*, 39(1): 1291-1297.
11. Chiu, Yuan-Shyi Peter, Liu, S-C., Chiu, C-L., Chang, H-H. (2011) Mathematical modelling for determining the replenishment policy for EMQ model with rework and multiple shipments. *Mathematical and Computer Modelling* 54 (9-10), 2165-2174.
12. Chiu, Yuan-Shyi Peter, Lin, H-D. and Chang, H-H. (2011) Mathematical modeling for solving manufacturing run time problem with defective rate and random machine breakdown. *Computers & Industrial Engineering*, 60 (4), 576-584.
13. Chiu, Yuan-Shyi Peter, Lin, H-D., Hwang, M-H., Pan, N. (2011) Computational optimization of manufacturing batch size and shipment for an integrated EPQ model with scrap. *American Journal of Computational Mathematics*, 1(3), 202-207.
14. Chiu, Yuan-Shyi Peter, Lin, C-A.K., Chang, H-H. and Chiu, V. (2010) Mathematical modeling for determining economic batch size and optimal number of deliveries for EPQ model with quality assurance. *Mathematical and Computer Modelling of Dynamical Systems*, 16(4), 373-388.
15. Chiu, Yuan-Shyi Peter and Ting, C-K. (2010) A note on 'Determining the optimal run time for EPQ model with scrap, rework, and stochastic breakdowns'. *European Journal of Operational Research*, 201(2), 641-643.
16. Chiu, Yuan-Shyi Peter, Chen, K-K., Cheng, F-T., Wu, M-F. (2010) Optimization of the finite production rate model with scrap, rework and stochastic machine breakdown. *Computers and Mathematics with Applications*, 59(2), 919-932.
17. Chiu, Yuan-Shyi Peter, Cheng, F-T., Chang, H-H. (2010) Remarks on optimization process of manufacturing system with stochastic breakdown and rework. *Applied Mathematics Letters*, 23(10), 1152-1155.
18. Chiu, Yuan-Shyi Peter, Chen, K-K., Chang, H-H. (2010) Solving an economic production lot size problem with multi-delivery policy and quality assurance using an algebraic approach. *Journal of Scientific & Industrial Research*, 69(12), 926-929.
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20. Chiu, Yuan-Shyi Peter, Lin, H-D. (2009) A hybrid approach based on Hotelling statistics for automated visual inspection of display blemishes in LCD panels. *Expert Systems with Applications*, 36(10), 12332-12339.
21. Chiu, Yuan-Shyi Peter, Chiu, S.W., Li, C-Y., and Ting, C-K. (2009) Incorporating multi-delivery policy and quality assurance into economic production lot size problem. *Journal of Scientific & Industrial Research*, 68(6), 505-512.
22. Chiu, Yuan-Shyi Peter, Lien, Y-L., Lin, C-A. K. (2009) Incorporating machine reliability issue and backlogging into the EMQ model - I: random breakdown occurring in backorder filling time. *International Journal for Engineering Modelling*, 22(1-4), 1-13.

23. Chiu, Yuan-Shyi Peter, Chiu, S.W. & Chao, H-C. (2008) Effect of shortage level constraint on finite production rate model with rework. *Journal of Scientific & Industrial Research*, 67(2), 112-116.
24. Chiu, S.W., Wang, S-L., and Chiu, Yuan-Shyi Peter* (2007) Determining the optimal run time for EPQ model with scrap, rework, and stochastic breakdowns. *European Journal of Operational Research*, 180(2), 664-676.
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26. Chiu, Yuan-Shyi Peter, Chiu, S.W. and Chao, H-C. (2006) Numerical method for determination of reworking or scraping the defective items in a finite production rate model. *Communications in Numerical Methods in Engineering*, 22(5), 377-386.
27. Chiu, Yuan-Shyi Peter and Chiu, S.W. (2006) Determining the materials procurement policy based on the economic order/production models with backlogging permitted. *International Journal of Advanced Manufacturing Technology*, 30(1-2), 156-165.
28. Chiu, Yuan-Shyi Peter and Chiu, S.W. (2006) Note on Effects of random defective rate and imperfect rework process on economic production quantity model. *Journal of Manufacturing Science and Engineering*, 128(1), 375-377.
29. Chiu, Yuan-Shyi Peter (2006) The effect of service level constraint on EPQ model with random defective rate. *Mathematical Problems in Engineering*, 2006 (2006), Article ID 98502, 13 pages.
30. Chiu, Yuan-Shyi Peter, Lin, H-D., and Cheng, F-T. (2006) Optimal production lot sizing with backlogging, random defective rate, and rework derived without derivatives. *P I Mech E Part B: Journal of Engineering Manufacture*, 220(9), 1559-1563.
31. Chiu, Yuan-Shyi Peter, Chiu, S.W. and Lin, H-D. (2006) Solving an EPQ model with rework and service level constraint. *Mathematical & Computational Applications*, 11(1), 75-84.
32. Chiu, Yuan-Shyi Peter and Chiu, S.W. (2005) Incorporating expedited time and cost of the end product into the product structure diagram. *International Journal of Machine Tools & Manufacture*, 45(7-8), 987-991.
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34. Chiu, Yuan-Shyi Peter and Chiu, S.W. (2005) The finite production model with the reworking of defective items. *International Journal of Industrial Engineering -Theory, Applications and Practice*, 12(1), 15-20.
35. Chiu, Yuan-Shyi Peter (2003) Determining the optimal lot size for the finite production model with random defective rate, the rework process, and backlogging. *Engineering Optimization*, 35(4), 427-437.