In this paper, a novel method to eliminate the steady-state offset that is encountered when dealing with load change occurs in processes is proposed for identified heat exchanger process model. The algorithm proposed is based on the fact that DMC algorithm is equivalent to an IMC structure. Then we can improve conventional DMC using a modified IMC structure to remove the offset. A simulation result shows the effectiveness of modified control algorithm.

Reference

- C. R. Cutler stid B. L. Ramaker, "Dynamic matrix control: a computer control algorithm", AICHi? natioanl meerin8, Houston, TX, April,1979.
- P. Lmdstram, J . H. LDD, M, Morari atid S. Skogestad, "Limitations of dynamic matrix
control"