



5. Conclusion

In this work, an MILP model is formulated for HEN retrofit. This model simultaneously considers the saving cost utility, structural modification, new area cost and additional area cost. To overcome the problems, a two-step approach is presented. In the first step, retrofit step finds the optimum network and the second step or relocation step indicates heat exchanger matching and investment. Second step includes relocation concept1 and 2. Concept 2 is quite better than concept1 because of less investment.