

CHAPTER VII

SUMMARY AND RECOMMENDATIONS

7.1 Summary

The simulator for distillation calculation has been developed by using C++ language. The modified tridiagonal matrix was employed in this work. It can solve the distillation problem that has maximum numbers of 10 components and 100 stages. It was convenient to input all the data in each dialog, because it provided a lot of Graphic User Interfaces and could be run on windows. The results of calculation were presented both in tabular form and in graphic form.

The accuracy of the distillation calculation was compared to HYSIM and the examples in some references. This simulator can be used to simulate the distillation column and studied the behavior of distillation.

7.2 Recommendations

This simulator has limitations of components and trays. Further development in this simulator can be proposed as follows:

1. Increase the number of components and trays.
2. Modify the distillation model.
3. Modify the method for solving distillation problems.
4. Add new methods for solving several distillation problems.
5. Modify Graphic User Interface for input and output.
6. Create the on-line help to suggest the user.

7. Modify the database that has more data and method for estimating the properties.