

Summary

This report summarizes the work carried out at the University of Pittsburgh for the multiphase flow process laboratory supported by Gulf Research and Development Company. The work is divided into three parts. In part A, data on gas holdup and axial dispersion of heat for several liquids other than water for a continuous bubble column are described. The report also compares the new data with the past data for air-water system. Part B describes some experimental data for newly erected batch system. The data, once again, are obtained for the liquids other than water. In Part C some data for the mass transfer coefficient in an agitated high pressure system are described. These data show the effect of pressure on the mass transfer coefficient.

The proposed future work on all three parts of the laboratory is also briefly described in the report.