

List of Tables

Table		Page
1.1	List of LOCAs in Nuclear power stations.....	3
2.1	Description of the relevant coefficients for vortex-free OGE of single discharge investigations	31
3.1	Number of OGEs encountered in various groups.....	37
3.2	Details of the various instruments used in experiment	56
3.3	Maximum variation in setting of Froude number	58
4.1	Test matrix for experimental investigation	63
4.2	Cases of geometrically identical and unique branch combinations of single discharge	73
4.3	Correlation constants and RMSE for single discharge	77
4.4	Comparison of present data with existing correlations of single discharge...	81
4.5	Cases of geometrically identical and unique branch combinations of dual discharge.....	84
4.6	Correlation constants and RMSE for dual discharge	90
4.7	Comparison of present data with existing correlations of dual discharge	94
4.8	Cases of geometrically identical and unique branch combinations of triple discharge.....	96

Table	Page
4.9 Correlation constants and RMSE for triple discharge.....	105
4.10 Cases of geometrically identical and unique branch combinations of quadruple discharge.....	110
4.11 Correlation constants and RMSE for quadruple discharge.....	115
4.12 Correlation constants and RMSE for quintuple discharge.....	119
A.1 Calibration data from pressure transmitter located at test chamber.....	132
A.2 Calibration data from pressure transmitter located at 1PH.....	133
A.3 Calibration data from pressure transmitter located at 2PH.....	133
A.4 Calibration data from mass flow meter located at downstream of 1PH.....	134
C.1 Experimental data for single discharge.....	156
C.2 Experimental data for dual discharge.....	158
C.3 Experimental data for triple discharge.....	163
C.4 Experimental data for quadruple discharge.....	173
C.5 Experimental data for quintuple discharge.....	178