

List of Tables

Table No.	Title	Page No.
Table 1.1	Representation of Biomass gasification reactions	3
Table 2.1	The ultimate analysis of selected biomass material(s)	19
Table 3.1	Thermodynamic equilibrium yields vs experimental gas yields (mol/molglycerol) for Supercritical water gasification of glycerol, Byrd et al., 2008 at various temperatures and feed concentrations and constant pressure of 24.1 MPa	30
Table 3.2	Thermodynamic equilibrium vs experimental gas composition (dry mole fraction) for Supercritical water gasification of glycerol of corn starch (CS) & sawdust (SD) mixtures (Antal et al., 2000)] at various temperatures and 28 MPa	30
Table 4.1a:	Main assumptions of Cycle-1	48
Table 4.1b:	Main assumptions of Cycle-2	52
Table 4.1c:	Main assumptions of Cycle-3	53
Table 4.2:	Ultimate analysis of selected biomass materials	63
Table 4.3:	Model validation between present work and Dai et al., 2009	64
Table 5.1	Comparison between the calculated open circuit voltage and area specific resistance with the measured values presented by Ebbesen et al., 2009 and Jensen et al., 2010	80