Camere Process

MehulKumar Sutariya

Background

The CAMERE process (carbon dioxide hydrogenation to form methanol via a reverse-watergas-shift reaction) was developed and evaluated in OpenModelica with the help of OMChemSim Library developed by . The reverse-water-gas-shift reactor and themethanol synthesis reactor were serially aligned to form methanol from CO₂hydrogenation.Carbon dioxide was converted to CO and water by the reverse-water-gas-shift reaction(RWReaction) to remove water before methanol was synthesized.

This Process is adopeted from shim Joo et. al.

Referance

Oh-Shim Joo, Kwang-Deog Jung, Il Moon, Alexander Ya. Rozovskii, Galina I. Lin, Sung-Hwan Han, and Sung-Jin Uhm, "Carbon Dioxide Hydrogenation To Form Methanol via a Reverse-Water-Gas-Shift Reaction (the CAMERE Process) "Ind. Eng. Chem. Res. 1999, 38, 1808-1812