

HVDC MODELLING Research oriented power systems software. Started writing this document in Madrid the 9th of October of 2016

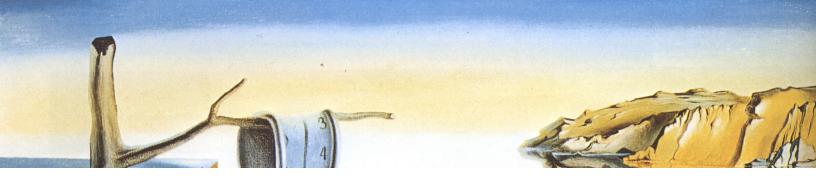
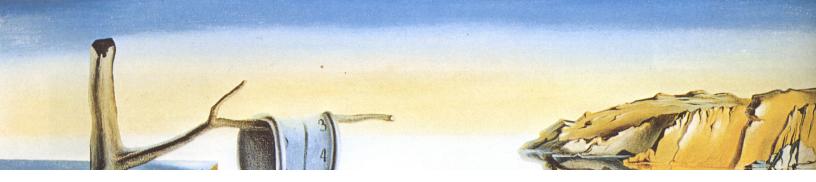


Table of content

1 HVDC modelling



1. HVDC modelling

In this section a general HVDC converter model is presented along with the power flow equations to simulate HVDC grids.

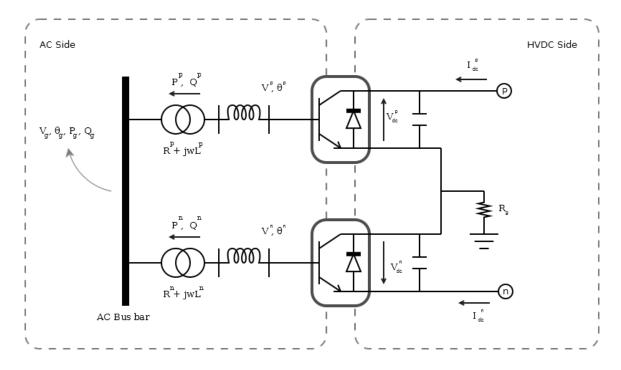


Figure 1.1: HVDC general converter model

Newton-Raphson system of equations to solve the HVDC grid power flow.

Each element of the matrix is a $N \times N$ matrix, where N is the number of converters in the HVDC grid. The sub-matrices A, B, C, D, E and F depend of the converter control mode.



Bibliography