

clock_thyr_6.gce

Attributes

```
mainvars: y1 y2 y3 y4 y5 y6
rparms:
+   g_high=1.0
+   tperiod=0
+   tw=10u
+   alpha=0
+   dt=0.1u
```

Description

clock_thyr_6.gce is clock generator, particularly useful for firing thyristors. It generates six clock signals y_1 , y_2 , y_3 , y_4 , y_5 , y_6 where y_2 has a phase shift of 60° with respect to y_1 , and so on.

The parameters have the following meaning:

g_high: High level of the pulse; the low level is assumed to be zero.

tperiod: Period of the pulse train.

tw: Pulse width.

alpha: Offset (with respect to $t = 0$) in degrees, where one period corresponds to 360° .

dt: Width of low-to-high and high-to-low transitions. **dt** should be generally set to $1/10$ of **tw** or smaller.

AC behaviour is not implemented.