

```
(2) R(t) = R_0(1 + \kappa V(t))

V(t) = T - T_0

V(t) = -\frac{1}{4} V(t) + R T^2(t) - 0

U(t) = D(t) R_0 \left( V(t) \right)

U(t) = D(t) R_0 \left( V(t) \right)

U(t) = D(t) R_0 \left( V(t) \right)

V(t) = U(t) - U(t)

V(t) = V(t) + R U^2(t)

V(t) = V(t) + R U^2(t)
```

```
for = @(Y, W) - () (Live constant) * y + beta * ((V^22) | RO* (1+ alpha * y)) 2);
                                                                                                                                                                                                                            % Functions for pessing
                                                                                                                                                                                                                                         values in bop
                                                                                                                                                                                                                                                                                                                                                                                           IIL(i) = VIC(i)/(Ro * (I+alpha * +1(i))).
Iz(i) = Vz(i)/(Ro * (I+alpha * Yz(i)));
                                                                                                                                                                                                                                                                                                                             γις (11)= γις (1+ + fnc (γις), νις));
γρ((11)= γρ() + h* fnc (γρς), νρς()).
                                                                                                                                                                                                                                                                                                V2(i) = (1+ square (2*pi+0.05+(teli)-1)))/2,
                                                                                                                                                                                                                                                                                     VI(()) = Sin (pc/10) * + (U));
                                                                                                                                                                       time constant = 5.6770324;
                                                                                                                                                                                             % define voltege sources
                                                                                                                                                                                                                                                                          for (=13n1;
                                                                                                                                                                                                                                        (101: 00)/180 = 101;
                                                                                                                                                                                                                                                        ni = length (t);
MATCHE PROGRAM:
                                                                                                                              alpha= 0.5;
                                                                                                                                            beta = 200;
                                                                                                             Ro = 50;
                                                                                                                                                              N= 1/100;
                                                                                                Y2C() = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      end
                                                                                YICC) = 0;
                                                                 To = 20;
                                                close all
                                   clearall
```

Subpote (2,1,1)

Plot (L, 11)

Yideel ('billage Viet)')

Xideel ('time in accords')

Subpote (2,1,2)

Plot (L, E!)

Yideel ('time in sel')

Xideel ('time in sel')

Yideel ('time in sel')