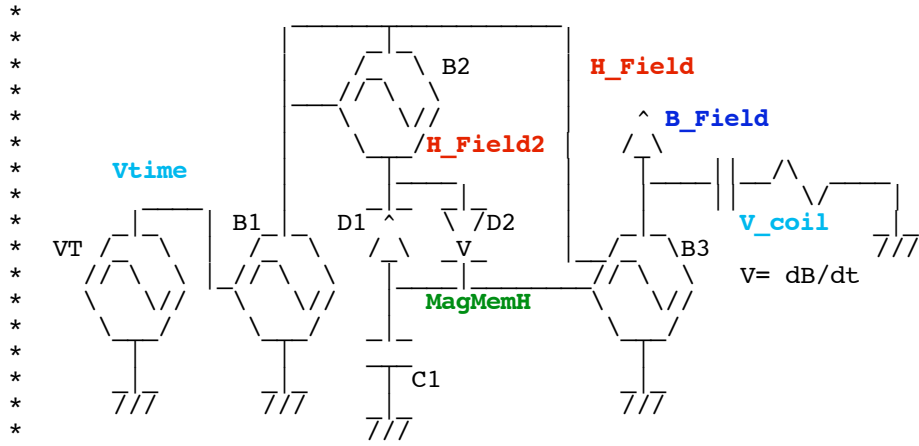


BH_Almost

* dsauersanjose@aol.com 5/07/08
 * www.idea2ic.com



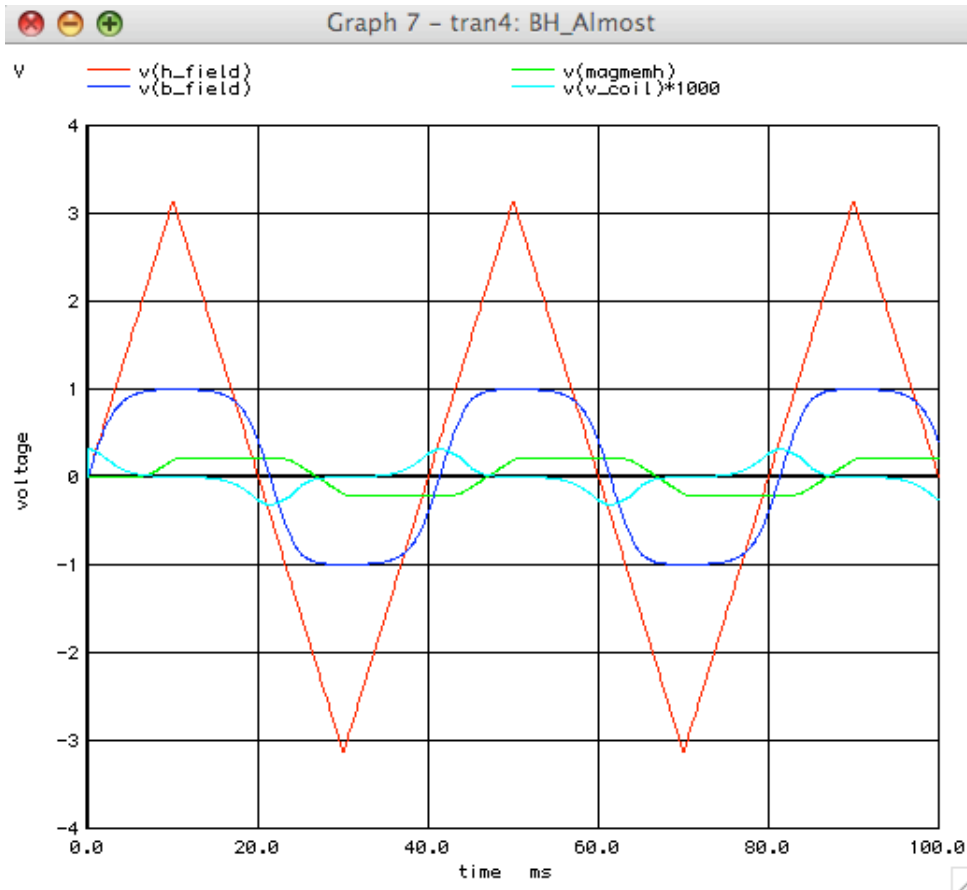
```

VT      Vtime      0           PWL ( 0 0 1 1 )
B1      H_Field    0           V = v(Vtime)*30*( 2*acos(cos(3.142*200*v(Vtime)))-3.145)
B2      H_Field    H_Field2    V = .7*v(H_Field)
D1      H_Field2   MagMemH     DD
D2      MagMemH    H_Field2    DD
C1      MagMemH    0           1p
B3      B_Field    0           V = tanh(V(H_Field)+2*V(MagMemH))
C2      B_Field    V_coil      1u
R2      V_coil     0           1
.tran   .1m       .1         0       .1m
.control
run
set     pensize = 1
plot    v(h_field) v(magmemh) v(b_field) v(v_coil)*1000
plot    v(b_field) vs v(h_field)
.endc
.model  DD D(IS=3.15e-18)
.end
  
```

=====END_OF_SPICE=====

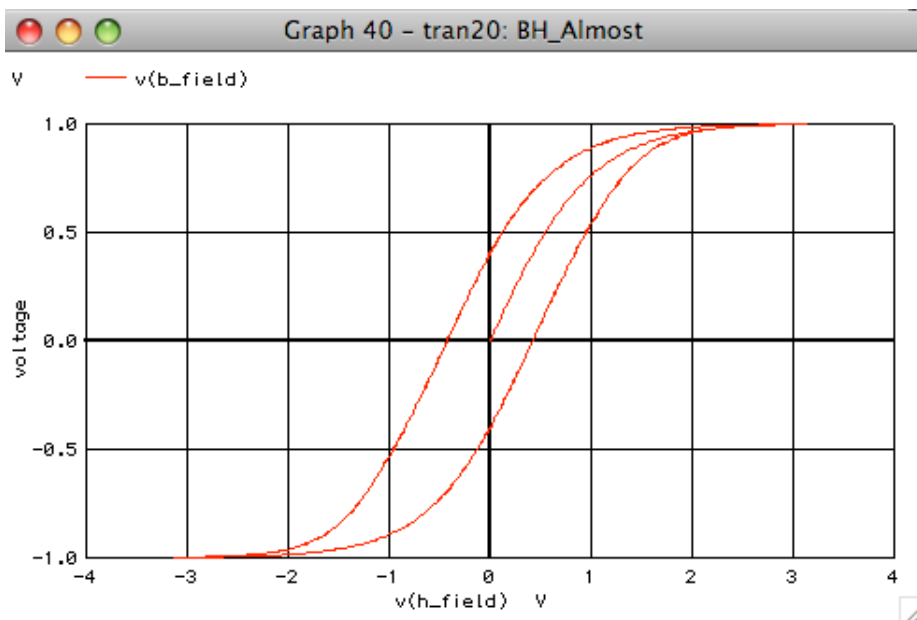
To Covert PDF to plain text click below
<http://www.fileformat.info/convert/doc/pdf2txt.htm>

The need is to somehow store what happens in the past which in this case the magnetic memory.



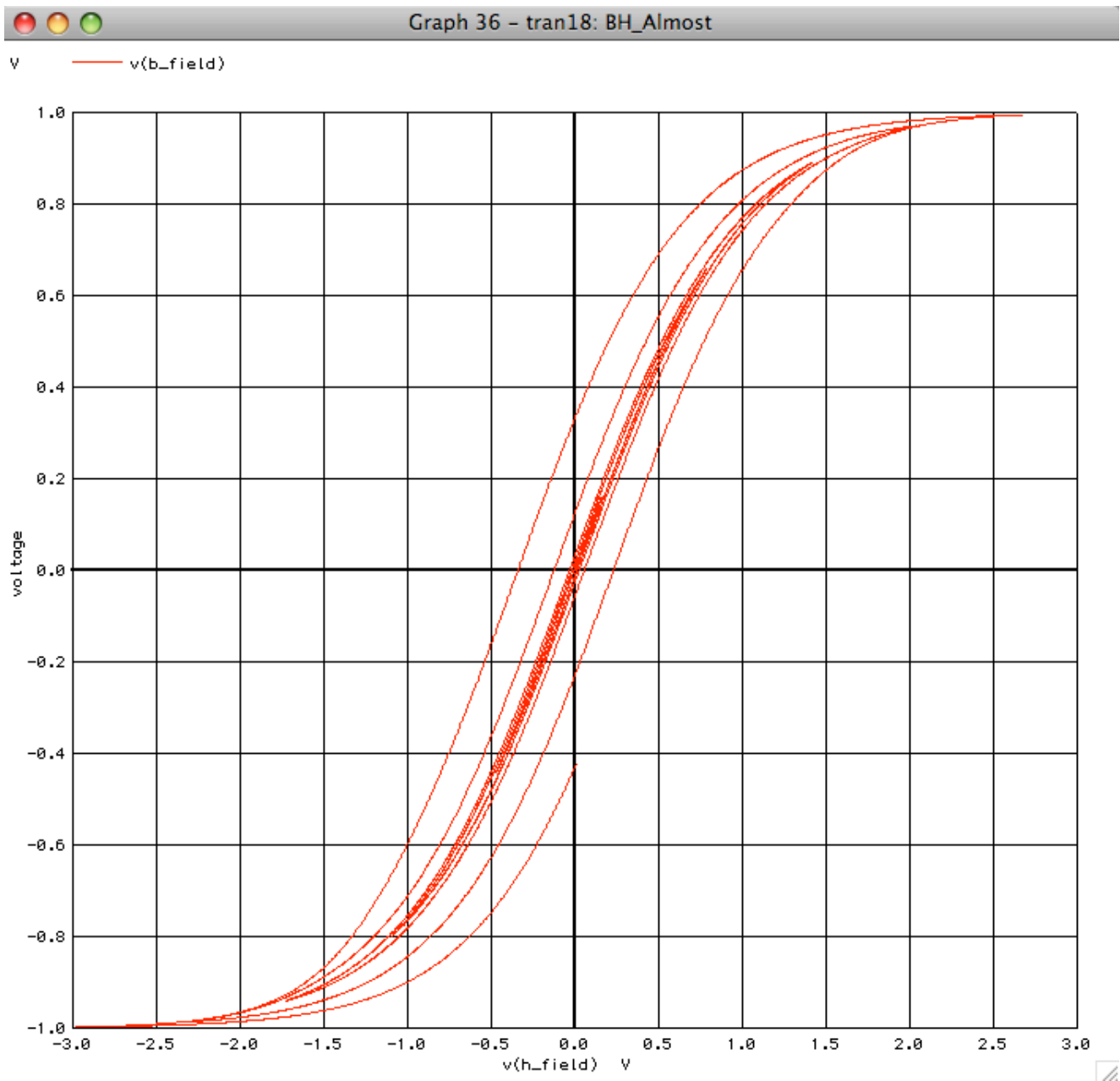
The store magnetic memory is used to offset the applied H_field .

The offsetted H_Field can then be put into some nonlinear function. (tanh in this case)



Using diodes and a capacitor with a variable

offset may still needs some tweaking.



But it is not obvious why enough circuitry couldn't be added to achieve the needed correlation to a real BH curve.

*#1=====WinSpiceVersion=====

BH Almost

* dsauersanjose@aol.com 5/07/08

* www.idea2ic.com

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

*

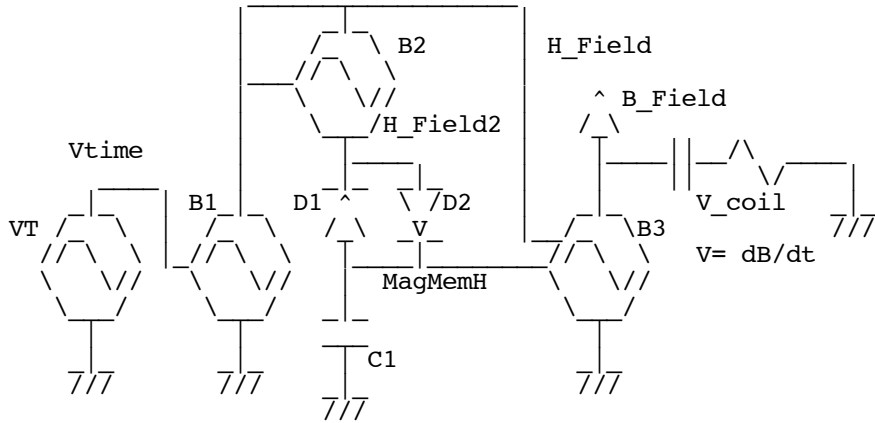
*

*

*

*

*



```

VT      Vtime      0          PWL ( 0 0 1 1 )
*B1     H_Field    0          V =   2* v(Vtime )*asin(sin(3.142*10*v(Vtime)))
B1      H_Field    0          V =   2* asin(sin(3.142*50*v(Vtime)))
B2      H_Field    H_Field2  V =   .8*v(H_Field)
D1      H_Field2  MagMemH    DD
D2      MagMemH   H_Field2  DD
C1      MagMemH   0          1p
B3      B_Field   0          V =   tanh(V(H_Field)+2*V(MagMemH))
C2      B_Field   V_coil    1u
R2      V_coil    0          1
.tran   .1m       .1        0        .1m
.control
run
set     pensize = 1
plot   v(h_field) v(magmemh) v(b_field) v(v_coil)*1000
plot   v(b_field) vs v(h_field)
.endc
.model DD D(IS=3.15e-18)
.end

```