

BH_Almost

* dsauersanjose@aol.com 5/07/08

* www.idea2ic.com

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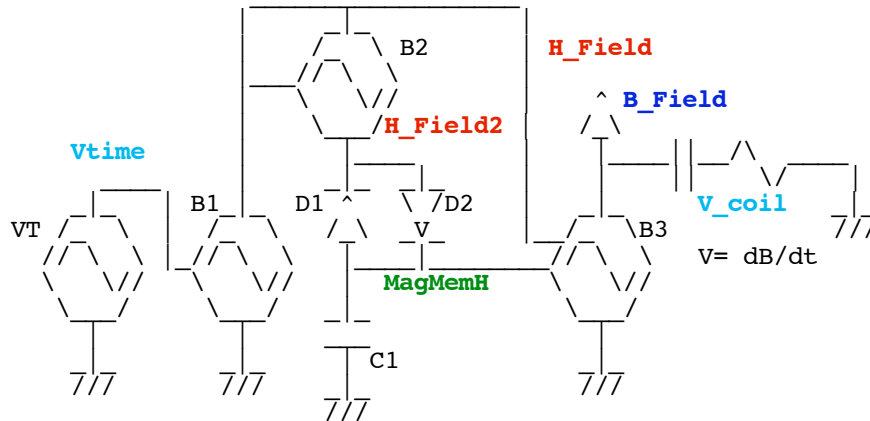
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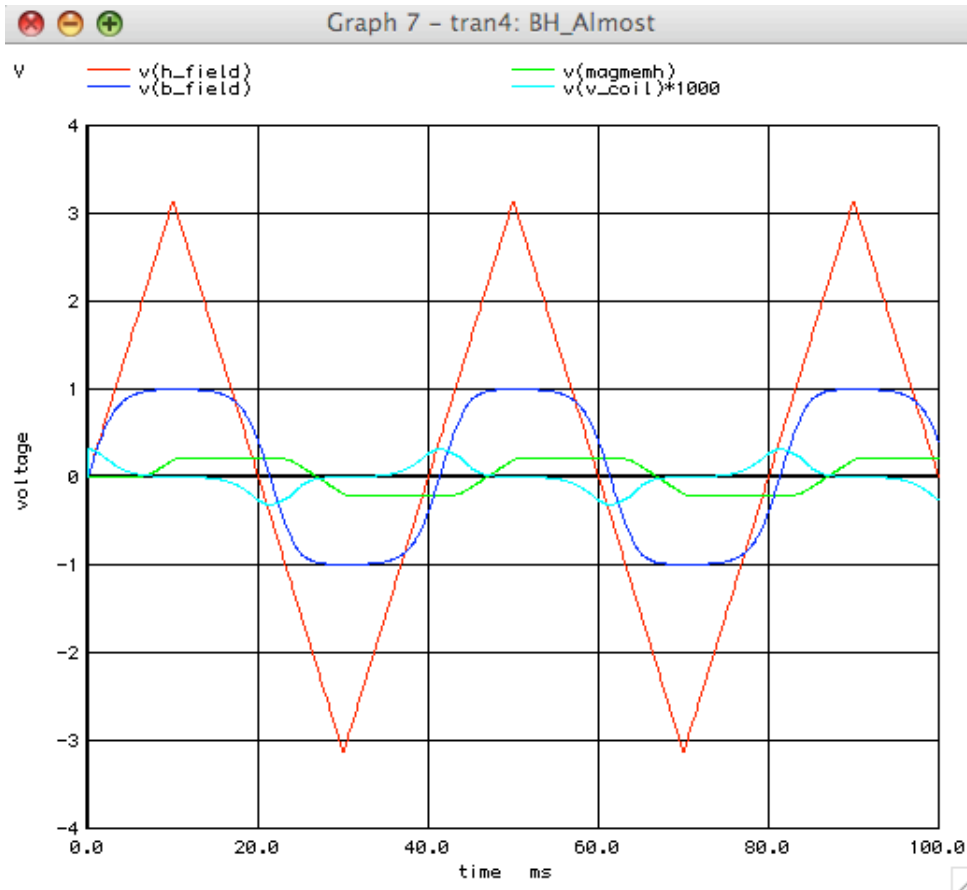
VT      Vtime      0      PWL ( 0 0 1 1 )
*B1     H_Field    0      V = 2* v(Vtime )*asin(sin(3.142*10*v(Vtime)))
B1      H_Field    0      V = 2* asin(sin(3.142*50*v(Vtime)))
B2      H_Field    H_Field2 V = .8*v(H_Field)
D1      H_Field2   MagMemH  DD
D2      MagMemH    H_Field2  DD
C1      MagMemH    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

```

=====**END_OF_SPICE**=====

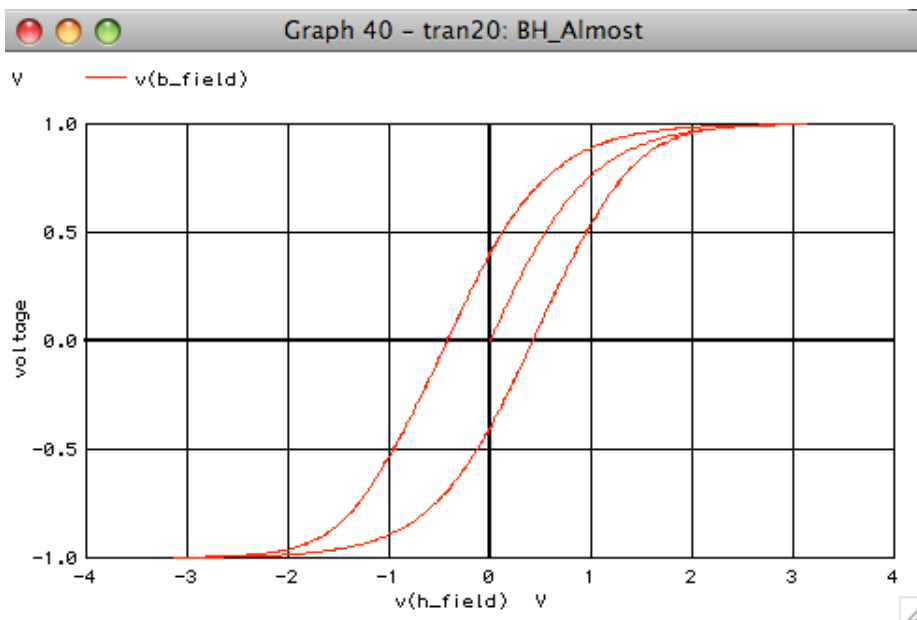
To Covert PDF to plain text click below
<http://www.fileformat.info/convert/doc/pdf2txt.htm>

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



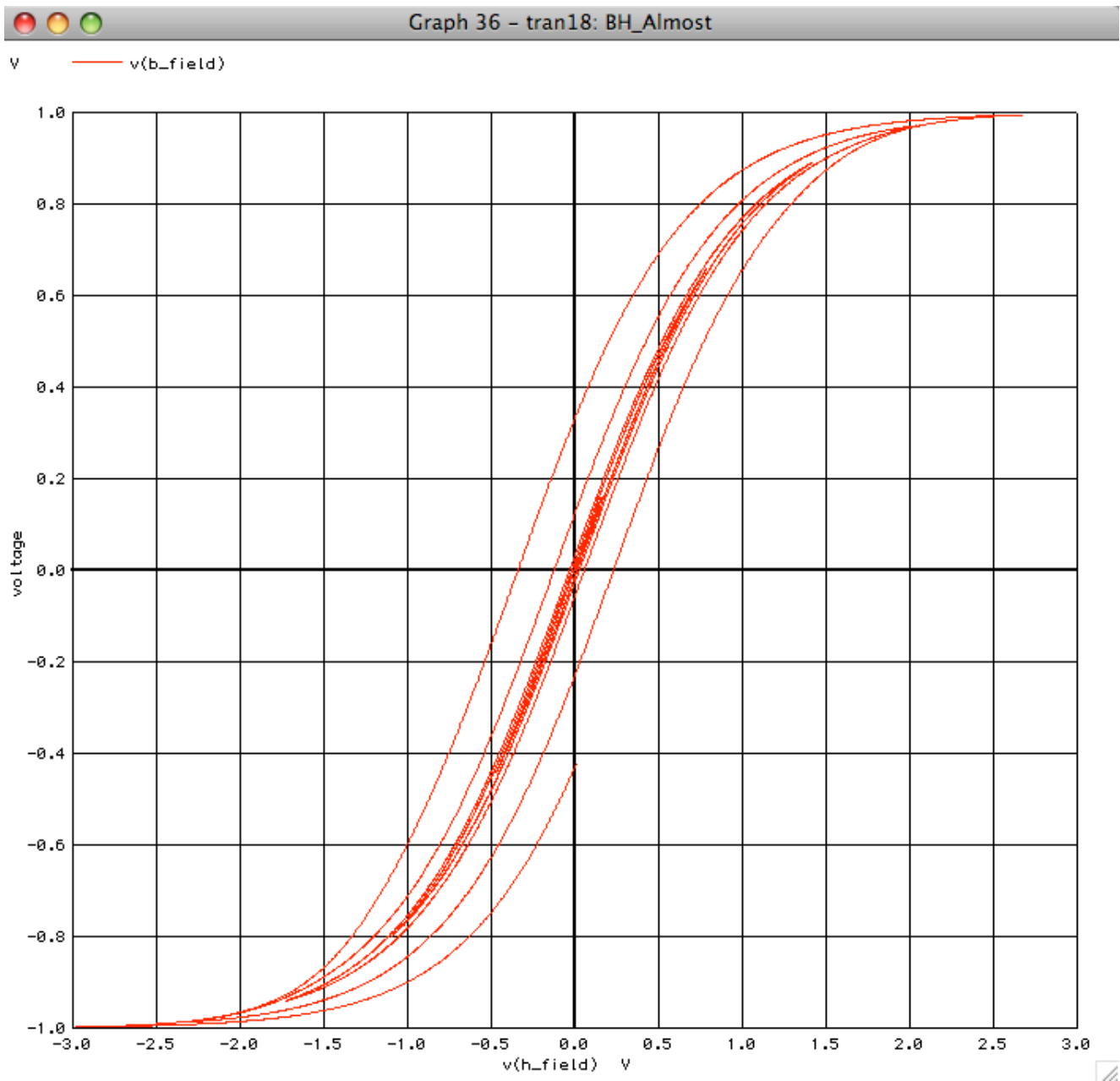
The store magnetic memory is used to offset the applied H_field.

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.