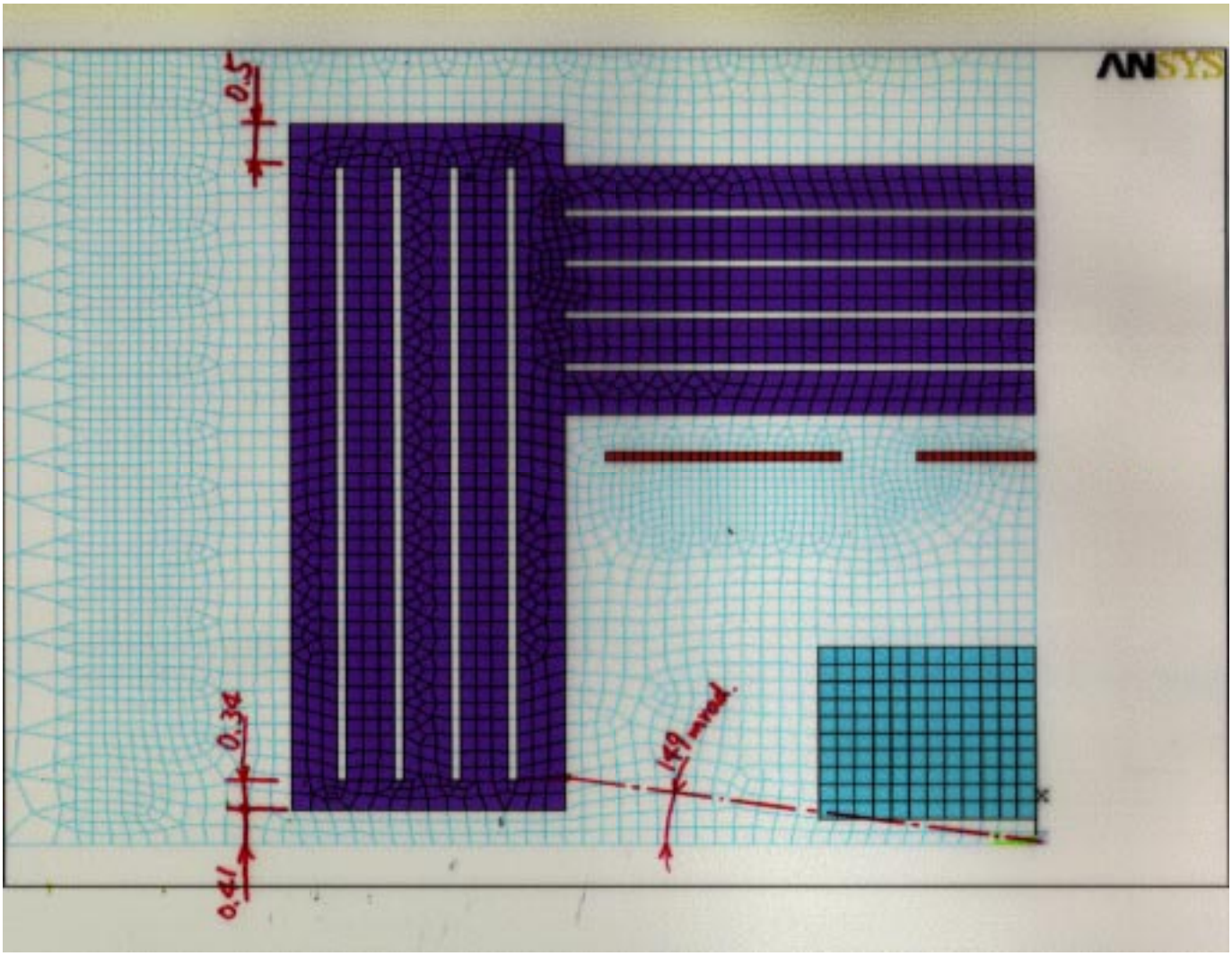
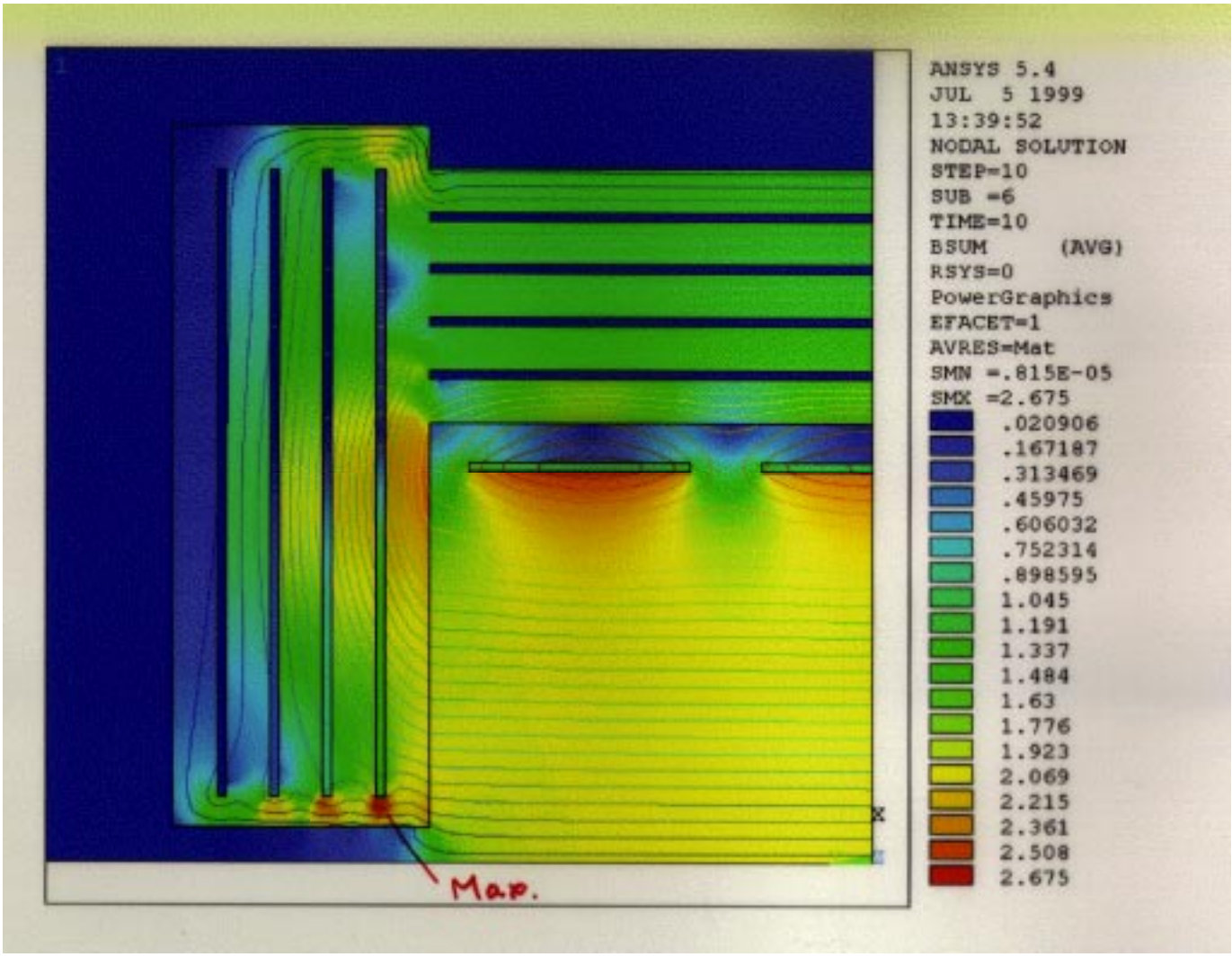
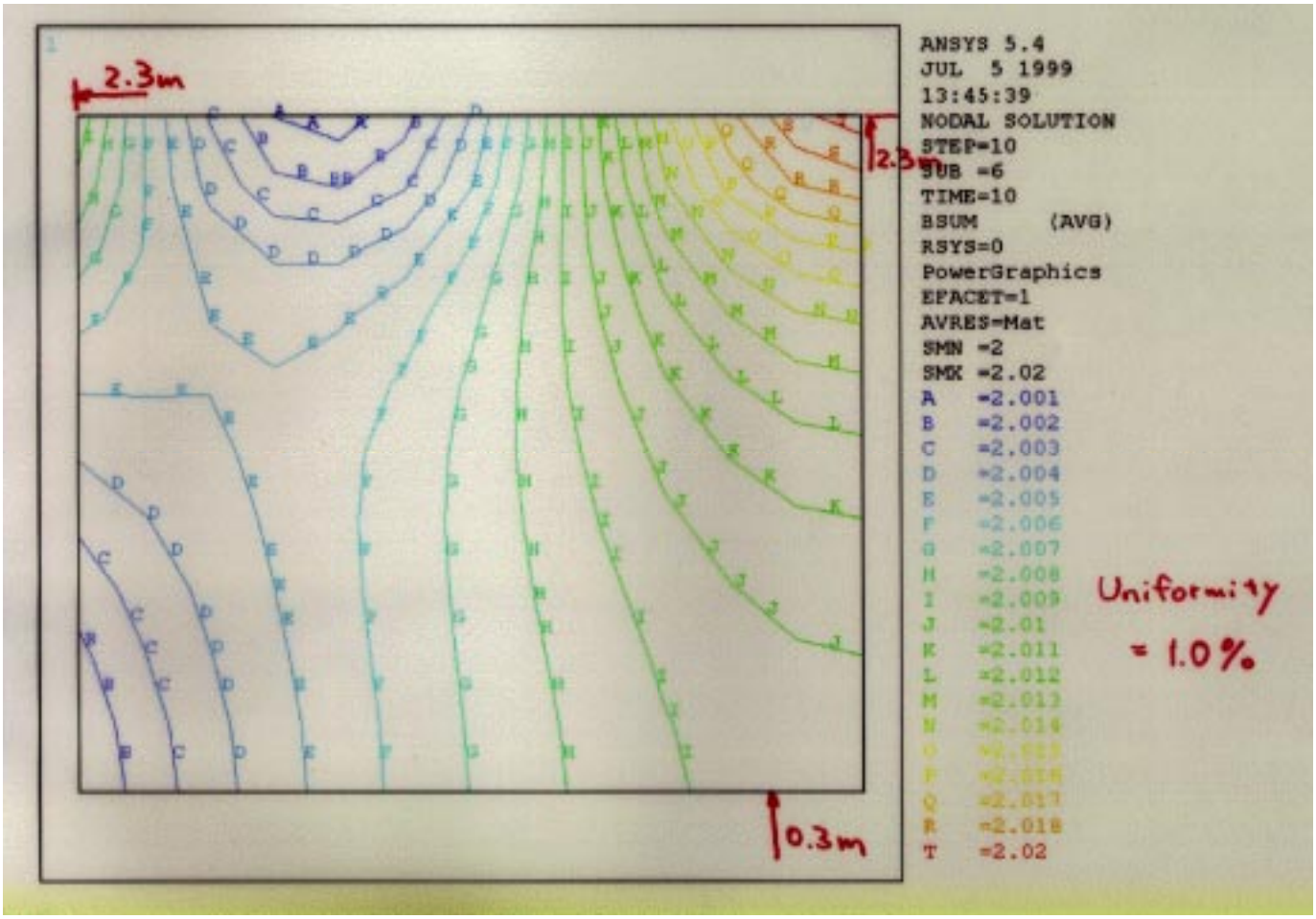
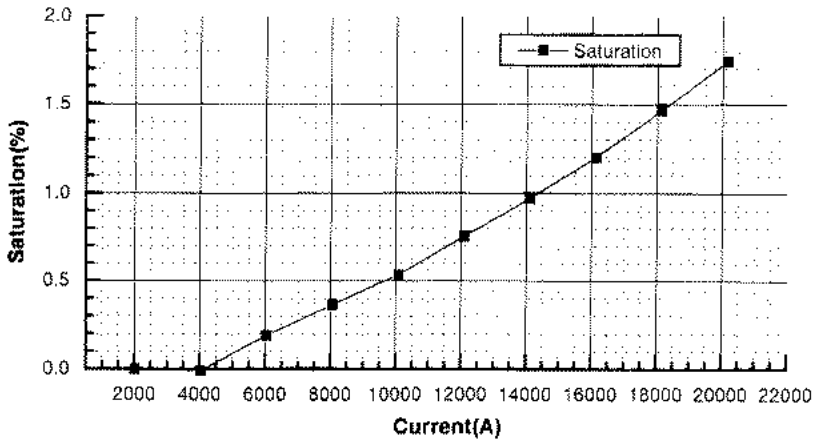
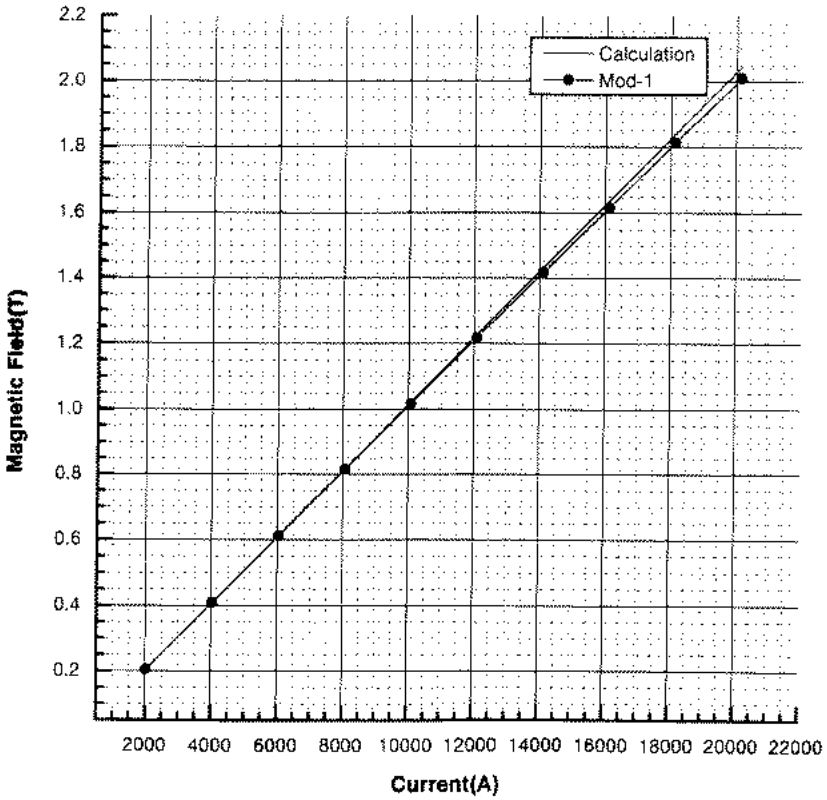
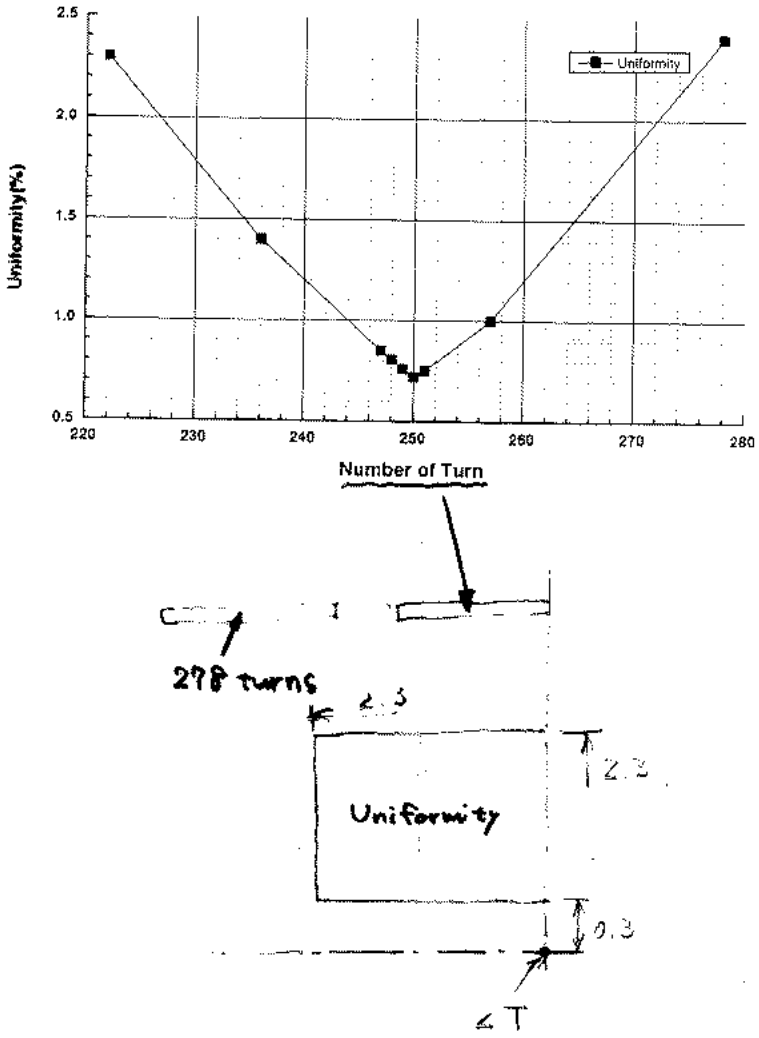

ANSYS
0.5
0.34
0.41
1.49 rotad.

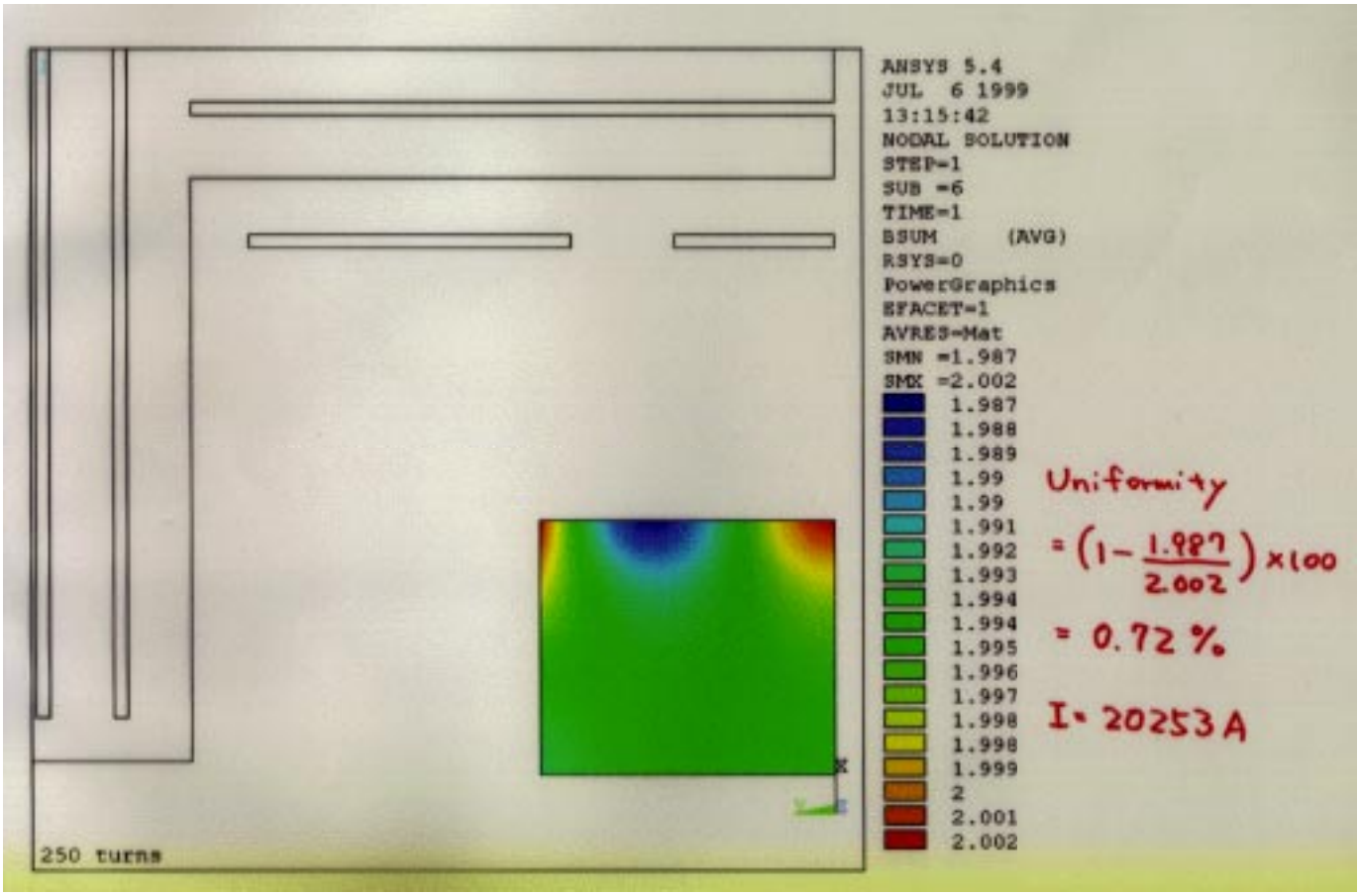

ANSYS 5.4
JUL 5 1999
13:39:52
NODAL SOLUTION
STEP=10
SUB =6
TIME=10
BSUM (AVG)
RSYS=0
PowerGraphics
EFACET=1
AVRES=Mat
SMN =.815E-05
SMX =2.675
.020906
.167187
.313469
.45975
.606032
.752314
.898595
1.045
1.191
1.337
1.484
1.63
1.776
1.923
2.069
2.215
2.361
2.508
2.675
Map.

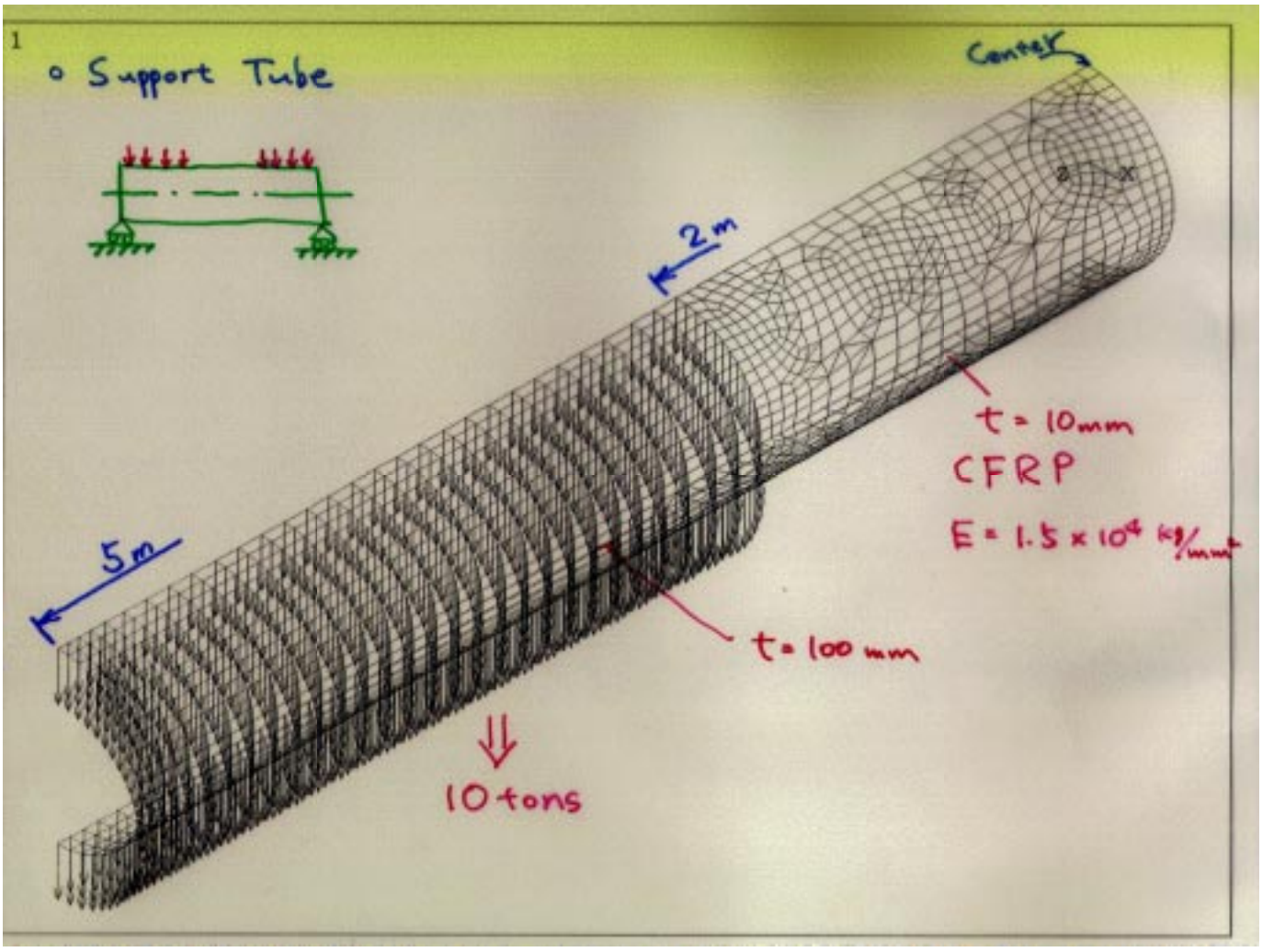

2.3m
2.3m
0.3m
ANSYS 5.4
JUL 5 1999
13:45:39
NODAL SOLUTION
STEP=10
SUB =6
TIME=10
BSUM (AVG)
RSYS=0
PowerGraphics
EFACET=1
AVRES=Mat
SMN =2
SMX =2.02
A =2.001
B =2.002
C =2.003
D =2.004
E =2.005
F =2.006
G =2.007
H =2.008
I =2.009
J =2.01
K =2.011
L =2.012
M =2.013
N =2.014
O =2.015
P =2.016
Q =2.017
R =2.018
T =2.02
Uniformity
= 1.0%

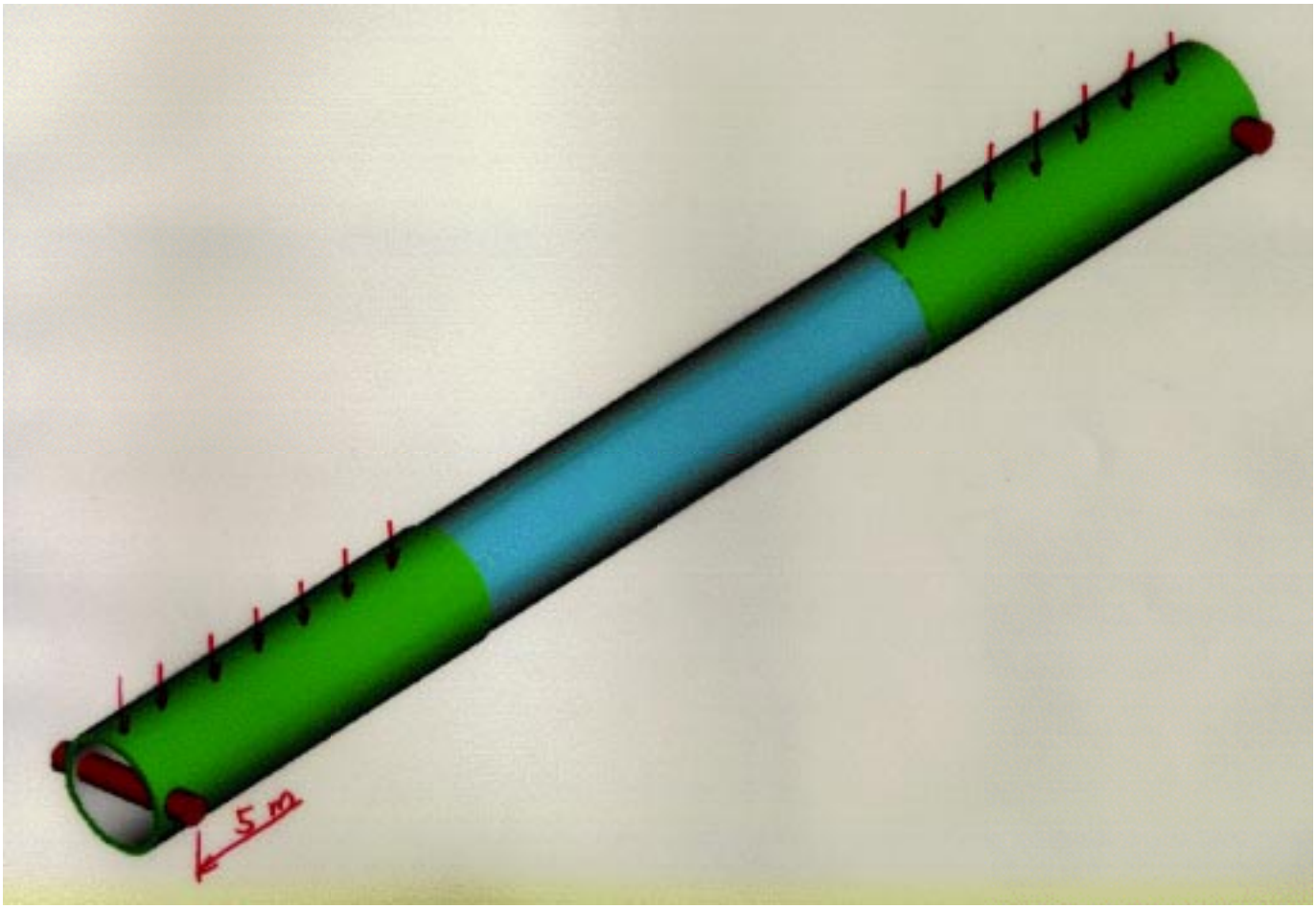

Saturation
Saturation(%)
2.0
1.5
1.0
0.5
0.0
2000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000
Current(A)

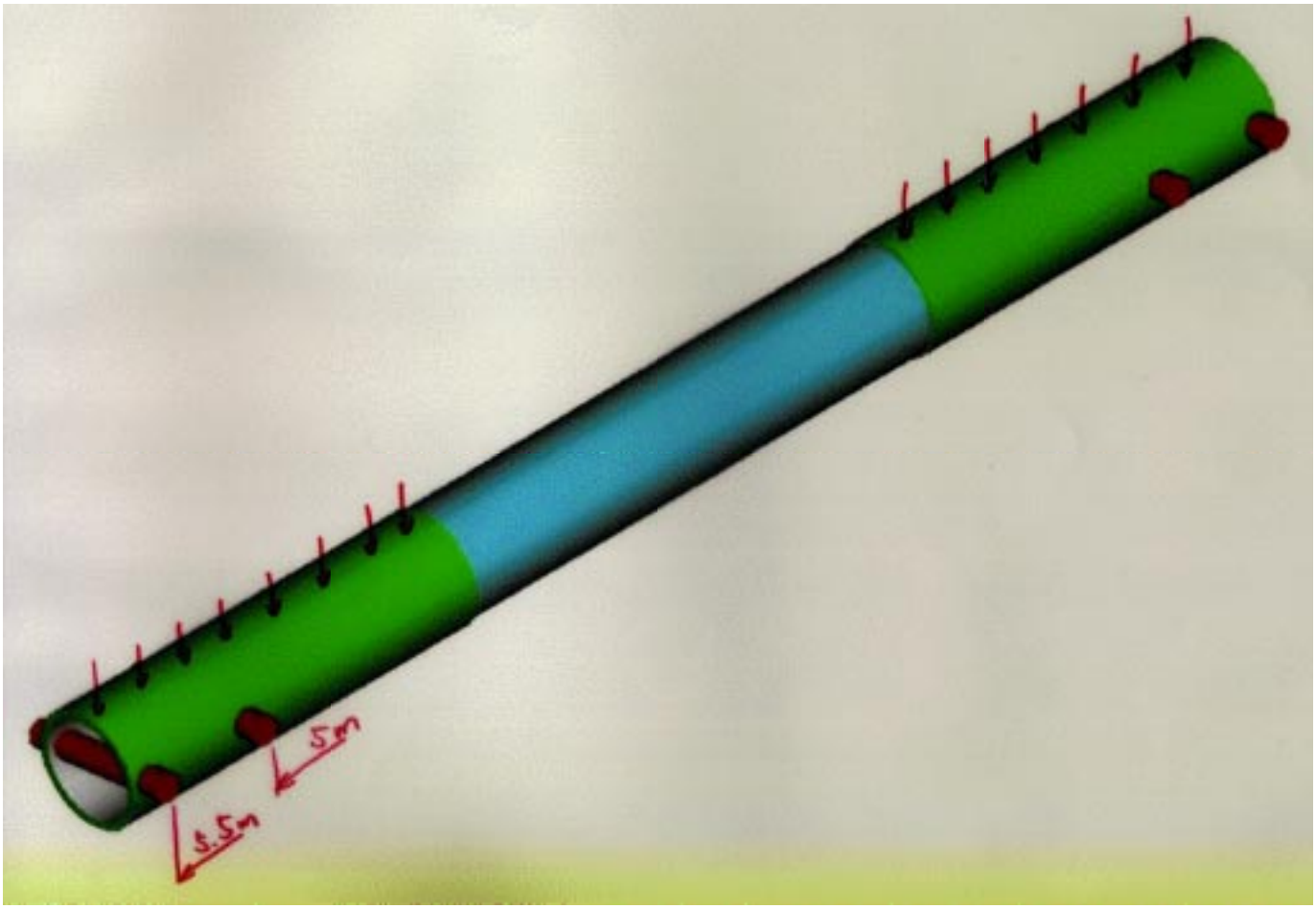

Calculation
Mod-1
Magnetic Field(T)
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
2000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000
Current(A)

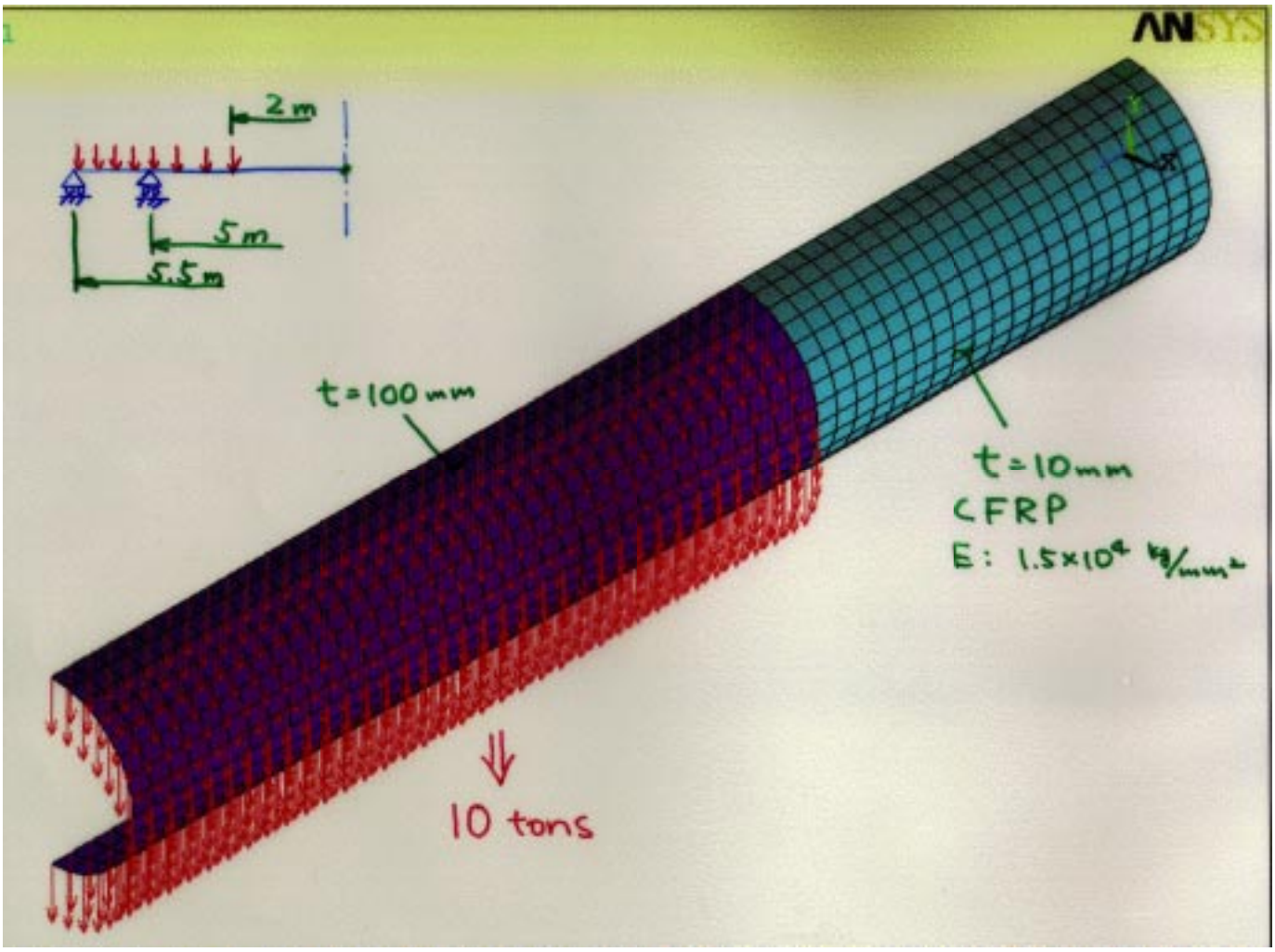

Uniformity
Uniformity(%)
2.5
2.0
1.5
1.0
0.5
220
230
240
250
260
270
280
Number of Turn
278 turns
2.3
2.3
Uniformity
0.3
∠T

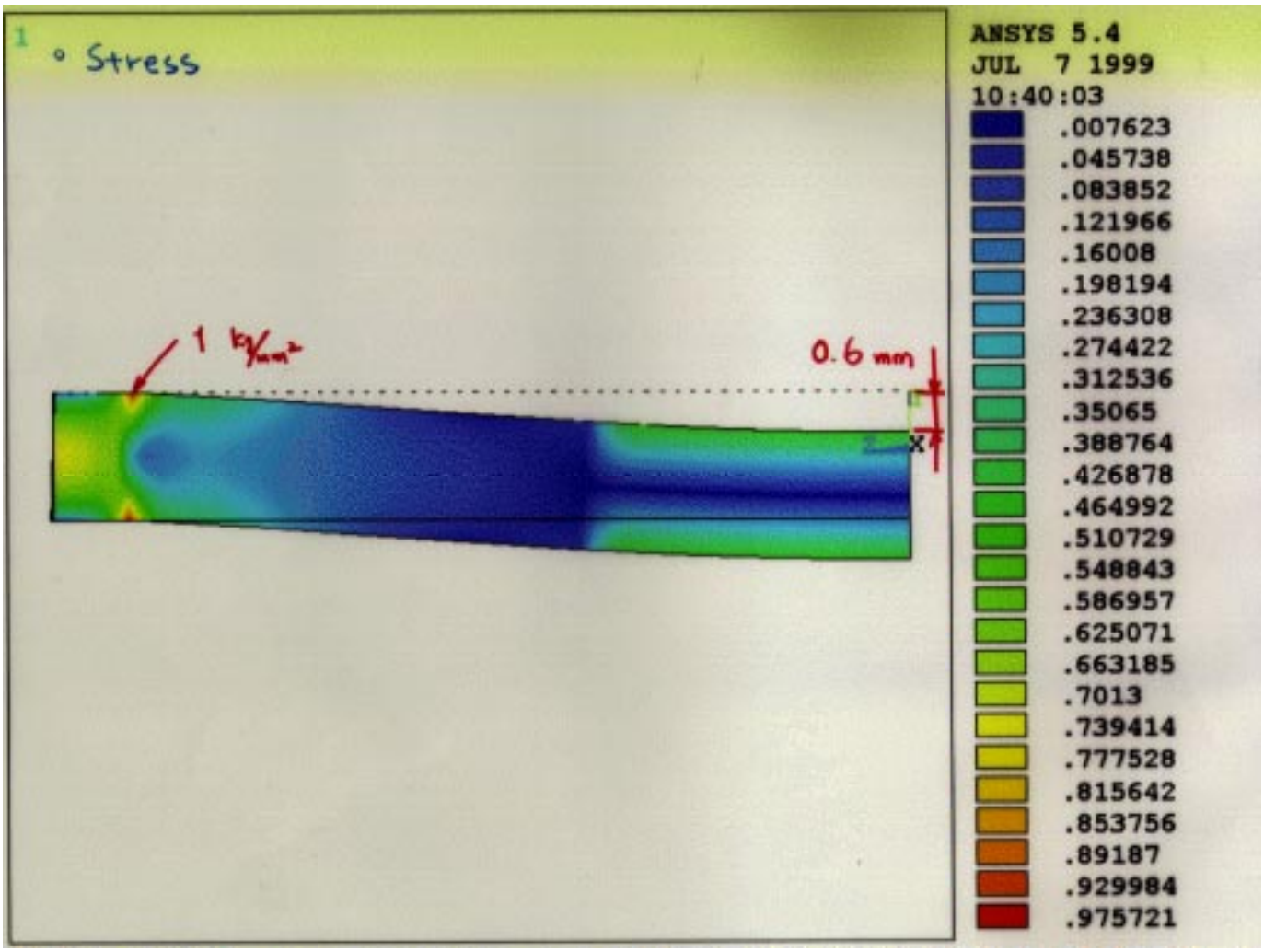

ANSYS 5.4
JUL 6 1999
13:15:42
NODAL SOLUTION
STEP=1
SUB =6
TIME=1
BSUM (AVG)
RSYS=0
PowerGraphics
EFACET=1
AVRES=Mat
SMN =1.987
SMX =2.002
1.987
1.988
1.989
1.99
1.99
1.991
1.992
1.993
1.994
1.994
1.995
1.996
1.997
1.998
1.998
1.999
2
2.001
2.002
Uniformity
$= \left(1 - \frac{1.987}{2.002}\right) \times 100$
= 0.72 %
I = 20253 A
250 turns


1
o Support Tube
Center
2m
5m
t = 10mm
CFRP
E = 1.5 × 10⁴ kg/mm²
t = 100 mm
10 tons


5 m


5m
3.5m


ANSYS
2m
5m
5.5m
t=100mm
t=10mm
CFRP
E: 1.5×10⁴ kg/mm²
10 tons


1
Stress
1 kg/mm²
0.6 mm
ANSYS 5.4
JUL 7 1999
10:40:03
.007623
.045738
.083852
.121966
.16008
.198194
.236308
.274422
.312536
.35065
.388764
.426878
.464992
.510729
.548843
.586957
.625071
.663185
.7013
.739414
.777528
.815642
.853756
.89187
.929984
.975721