

# WERC

## CALCULATION OF FIELD PARAMETERS FROM CURRENT MOMENT SUMS

### CURRENT MOMENT SUM

<u>TOWER</u>	<u>REAL</u>	<u>IMAGINARY</u>	<u>MAGNITUDE</u>	<u>PHASE</u>
1	533.68317	0.455282	533.68336	0.0
2	-148.72408	462.30781	485.64119	107.8

RATIO       $F2/F1 = 485.64119 / 533.68336 = .910$

PHASE       $F2/F1 = 107.8 - 0.0 = 107.8$

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WERC Tower 1  
CURRENT MOMENT SUMMATION

<u>NODE</u>	<u>A</u>	<u>B</u>	<u>C</u>
1	4.725	6.31664 ✓	2.76056 ✓
2	9.450	7.56704 ✓	0.840362 ✓
3	9.450	7.58861 ✓	0.389435 ✓
4	9.450	7.39594	0.013536
5	9.450	6.97541	-0.232683
6	9.450	6.35607	-0.392332
7	9.450	5.55455	-0.476165
8	9.450	4.60712	-0.490205
9	9.450	3.55084	-0.442251
10	9.450	2.42453	-0.341155
11	9.450	1.29598	-0.200644
Top	4.725	0.0	0.0

SUMMATION OF A X B = 533.68317

SUMMATION OF A X C = 0.455282

A ½ SEGMENT LENGTH BELOW + ½ SEGMENT LENGTH ABOVE  
NODE

B REAL COMPONENT OF NODE CURRENT

C IMAGINARY COMPONENT OF NODE CURRENT

WERC TOWER 2  
CURRENT MOMENT SUMMATION

<u>NODE</u>	<u>A</u>	<u>B</u>	<u>C</u>
12	4.610	-3.02842	7.01297
13	9.220	-2.54050	7.15406
14	9.220	-2.35089	6.94796
15	9.220	-2.13096	6.59228
16	9.220	-1.89518	6.08622
17	9.220	-1.63762	5.43828
18	9.220	-1.36526	4.67414
19	9.220	-1.08479	3.82015
20	9.220	-0.803744	2.90612
21	9.220	-0.530841	1.96732
22	9.220	-0.276699	1.04883
Top	4.610	0.0	0.0

SUMMATION OF A X B = -148.72408

SUMMATION OF A X C = 462.30781

A  $\frac{1}{2}$  SEGMENT LENGTH BELOW +  $\frac{1}{2}$  SEGMENT LENGTH ABOVE  
NODE

B REAL COMPONENT OF NODE CURRENT

C IMAGINARY COMPONENT OF NODE CURRENT