Appendix I

Buildup Orientation Distribution - BOD

1. Start BOD
2. Open data file - obtain patch information
3. Assign initial voltages to all patches
4. Initialize orientation on patches - Zero, Random, Specify
5. Calculate
   - Normalize Desired vector Normalizing Previous Vector
   - Lshape
6. Set up FE pre-solver & solve
7. Loop BOD Loop
   - Do while bcoun = 'yes'
8. bcoun = 'no'
9. Loop BOD Loop
   - Do while jcount = n, n > 0
10. Calculate Coefficients cij
    - 0 < cij < 1.0
11. Sort and select the patch with the lowest Gamma = optPhAing
12. Test PATCHANGLES for changes in orientation change = 1.0
13. Call CHANGE ANGLE with Dangle at patch optPhAing with optAing
14. FE solve
15. Calculate Lshape, new
16. Loop
17. Is Lshape, new = Lshape?
18. No
19. Improve BOD-LLS bcoun = 'yes'
20. Current config becomes Previous config
21. Yes
22. Dangle = Dangle - 1
23. Loop
24. bcoun = 'yes'
25. Run LLS to optimize voltage configuration