List of Algorithms

2.1 Algorithm for constant strain rate simulations employed in chapters 3 and 4. 37
2.2 Edge-Screw Dislocation Dynamics. .................................................. 47
2.3 Algorithm for Nodal based dislocation dynamics ................................... 56
3.1 Implementation of twin-anti-twin asymmetry in TRIDIS for bcc systems. . . 68
4.1 Implementing irradiation loops as planar obstacles. ................................. 128
4.2 Generating irradiation loops as facets of different orientations. ................. 131
5.1 Computing the equilibrium separation of the parallel split partials. ........... 170
6.1 Algorithm for understanding cross-slip favorability of different stresses for a
    partially cross-slipped 2 segment screw dislocation (of type 6.6a and c). . . 210