

## % Configurations for the Extended Perturbation

```
setupEPer.Nmax          = 200;          %Max steps in the Extended Path solution
setupEPer.Nmin          = 50;           %Min steps in the Extended Path solution
setupEPer.maxDistSS     = 0.001;        %Max distance to SS when determining N
setupEPer.orderAppStart = 4;            %Order of approximation for the starting values
                                         %in the fixed point solver (max 4th order)
setupEPer.fixedPointSolver= 1;           %1 for the Newton-Raphson solver,
                                         %2 Newton-Raphson solver with optimal delta,
                                         %3 for an LM algorithm that minimizes the residuals
                                         %4 for an LM algorithm that minimizes the weighted residuals
setupEPer.JacobianOption = 3;           %1 for using numerical J and numerically
                                         % solving the system  $J \cdot x = -f$ 
                                         %2 for using analytical J to solve the system  $J \cdot x = -f$ 
                                         %3 for using analytical J computed recursively to solve
                                         % the system  $J \cdot x = -f$ 
setupEPer.lambda0       = 1e-6;         %Tuining parameter for fixedPointSolver = 3
setupEPer.lambdaBackup   = 1e-2;         %Tuining parameter for the LM algorithm when used as backup
setupEPer.tolf           = 1e-6;         %Tolerance level for optimization problem
setupEPer.MaxIter        = 1D4;          %Maximum number of iterations allowed in the Extended Path
algorithm
setupEPer.residualMax     = 0.0001;      %Max allowed value of a residual - for the hybrid simulator
setupEPer.MexOn          = 1;           %1 For using MEX-files, else 0
```