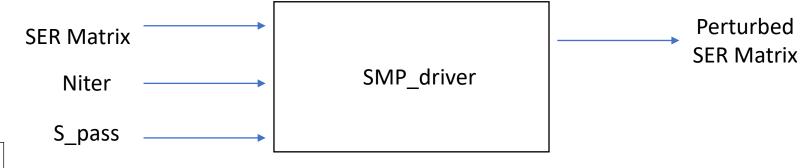
Initialization and I/O

- 1. Initialize SMP object
- 2. Call SMP_driver method to perform passivity assessment and enforcement
 - I. SER is in dictionary structure containing A,B,C,D matrices
 - II. Niter is the max number of perturbation rounds attempted
 - III. S_pass is the frequency range for passivity assessment and enforcement

```
smp = SMP()
new_SER = smp.SMP_driver(SER, Niter=5,
s_pass=2*np.pi*1j*np.linspace(0, 2e5, 1001).T)
```



Element	Dimension
A	(Nc*N) x (Nc*N)
В	(Nc*N) x Nc
С	Nc x (Nc*N)
D	Nc x Nc

Nc	Number of ports
Ν	Number of poles

SMP Algorithm Flow Chart

