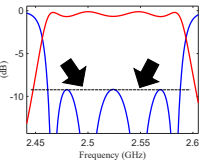


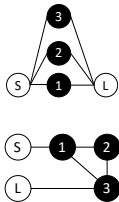
Determine:
Ripple and TZ
Locations



Function
Synthesis:
 $S_{11}(s), S_{21}(s),$
 ϵ, ϵ_r

$$\begin{aligned} F(s) &= 1s^4 + 1s^2 + 0.13 \\ P(s) &= 1 \\ E(s) &= +1s^4 + 1.1s^3 + \\ &\quad 1.7s^2 + 0.97s + 0.36 \end{aligned}$$

Determine
the Topology



Direct
Synthesis of
Coupling
Matrix

Network-
Circuit
Synthesis

Extracted-
Pole
Synthesis

Obtain the
Coupling
Matrix