Postmodernism tends to refer to a cultural, intellectual, or artistic state lacking a clear central hierarchy or organizing principle and embodying extreme complexity, contradiction, ambiguity, diversity, interconnectedness, and interreferentiality.

Brief review of The Modern Filter Canon

Low-Pass Prototypes
Frequency Scaling
Impedance Scaling
Transformation
Step 1: Choose a Low-Pass Prototype
Step 2: Frequency Scale the Low-Pass Prototype to the fractional Bandwidth
Step 3: Resonate each element of scaled filter at $\omega = 1$
Step 4: Scale impedance: \( L^*Z_0 \) and \( C/Z_0 \)

Step 5: Scale frequency by dividing all element values by \( \omega_0 = 2\pi f_0 \)
Step 6: Looks Great! Now add realistic parasitic elements.
Step 7: Try absorbing parasitics into desired elements:

It sort of works: but every non-parasitic element needs to be adjustable!
Step 8: Explore other options: use impedance as a variable
Step 9: Now use impedance inverters to eliminate unrealistic series element

\[ Z_0 = 10 \text{ impedance inverter at } \omega = 1 \]

Note: impedance inverter is frequency selective so response changes
Step 10: Use Smith Chart to design networks on ends to transform from 10 ohms back to 1 ohm. Note: these are frequency selective too.
Step 11: Scale to 50 ohms and desired frequency, and then tweak elements
Step 12: Add Parasitics and Compensate
Final Filter Design including Parasitics and Inductors with $Q < 100$