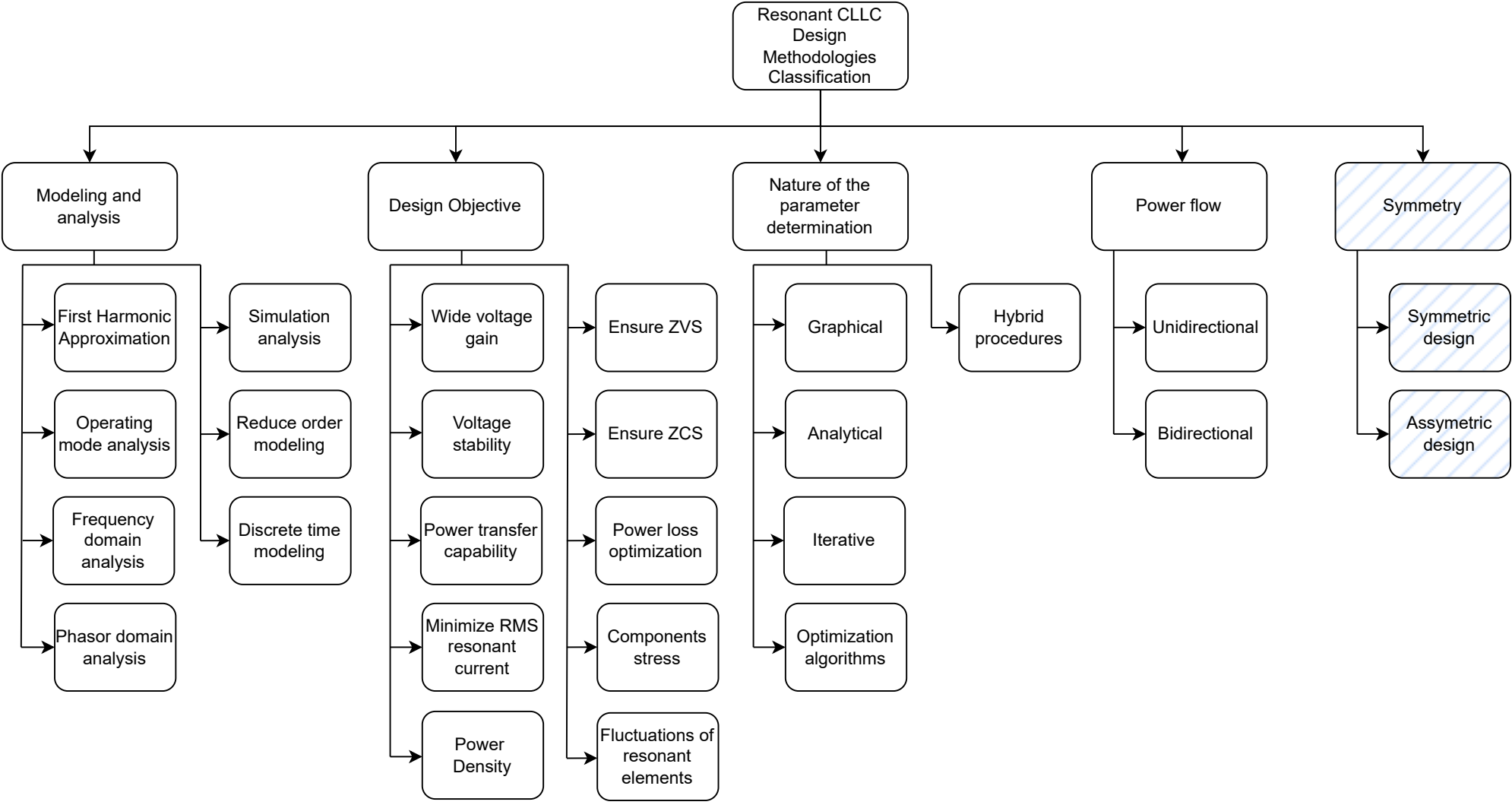

Resonant CLLC Design Methodologies Classification
Modeling and analysis
First Harmonic Approximation
Operating mode analysis
Frequency domain analysis
Phasor domain analysis
Simulation analysis
Reduce order modeling
Discrete time modeling
Design Objective
Wide voltage gain
Voltage stability
Power transfer capability
Minimize RMS resonant current
Power Density
Ensure ZVS
Ensure ZCS
Power loss optimization
Components stress
Fluctuations of resonant elements
Nature of the parameter determination
Graphical
Analytical
Iterative
Optimization algorithms
Hybrid procedures
Power flow
Unidirectional
Bidirectional
Symmetry
Symmetric design
Assymetric design