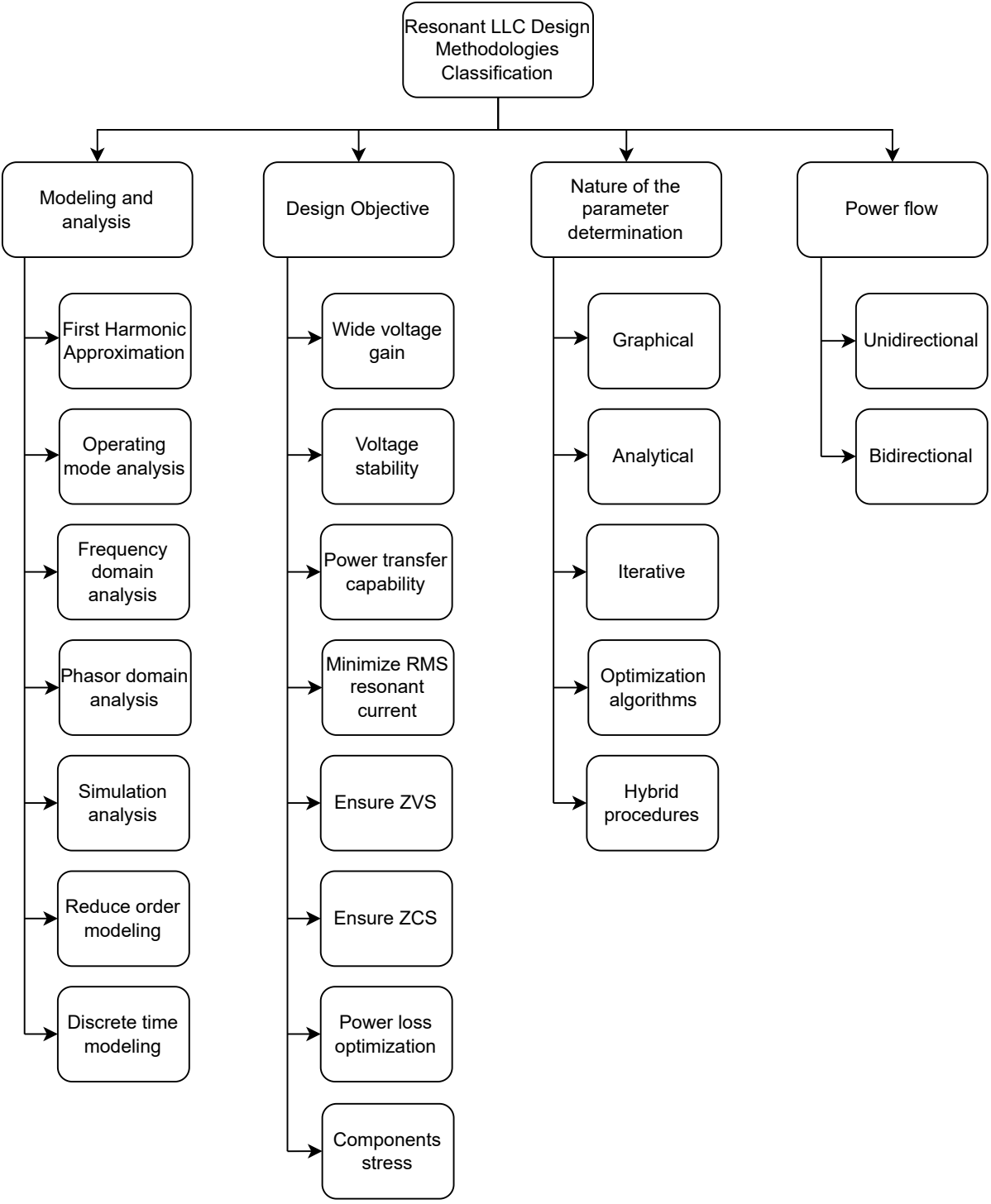

Resonant LLC Design Methodologies Classification
Modeling and analysis
Design Objective
Nature of the parameter determination
Power flow
First Harmonic Approximation
Operating mode analysis
Frequency domain analysis
Phasor domain analysis
Simulation analysis
Reduce order modeling
Discrete time modeling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