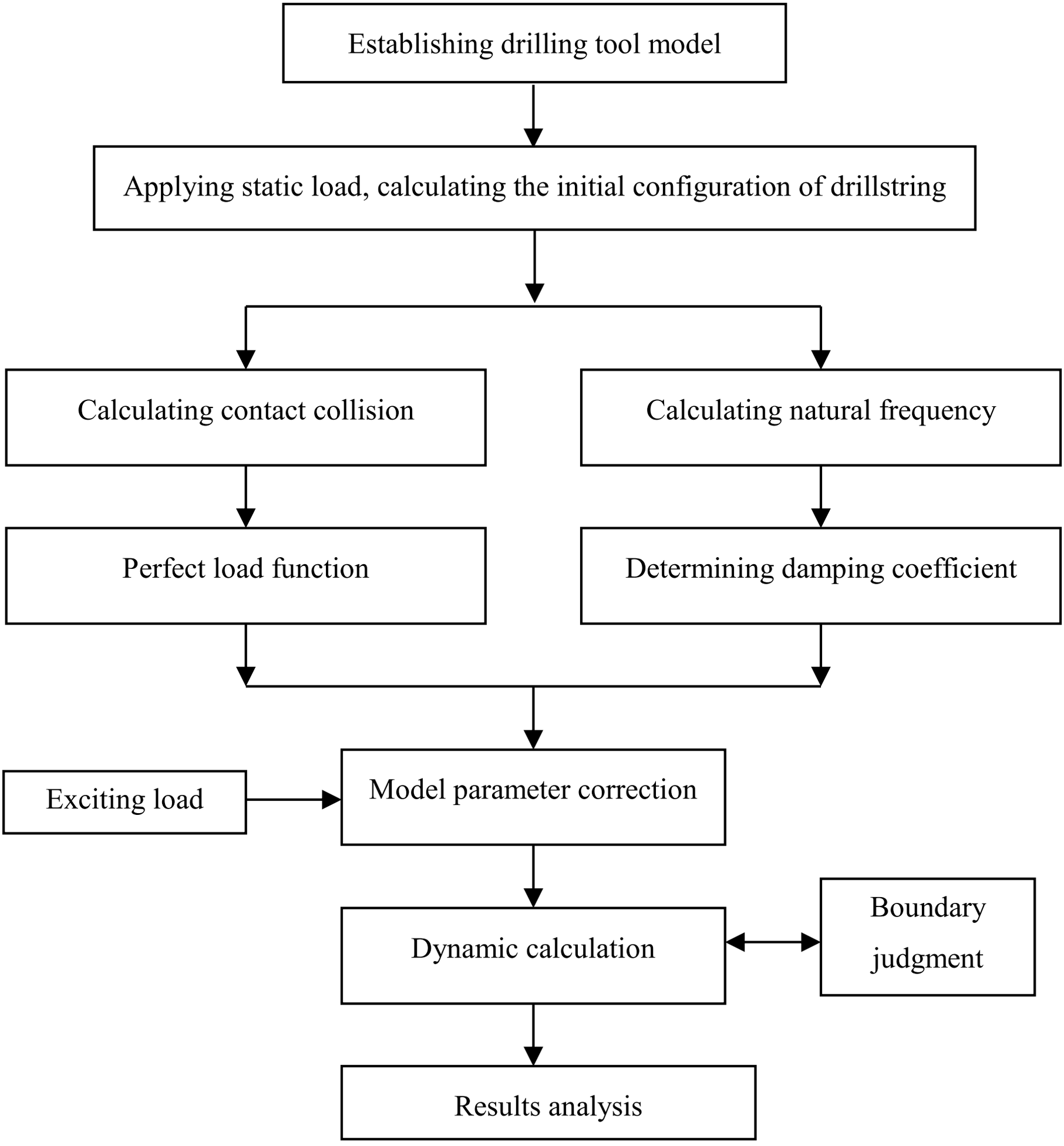
Establishing drilling tool model
Applying static load, calculating the initial configuration of drillstring
Calculating contact collision
Calculating natural frequency
Perfect load function
Determining damping coefficient
Exciting load
Model parameter correction
Dynamic calculation
Boundary judgment
Results analysis