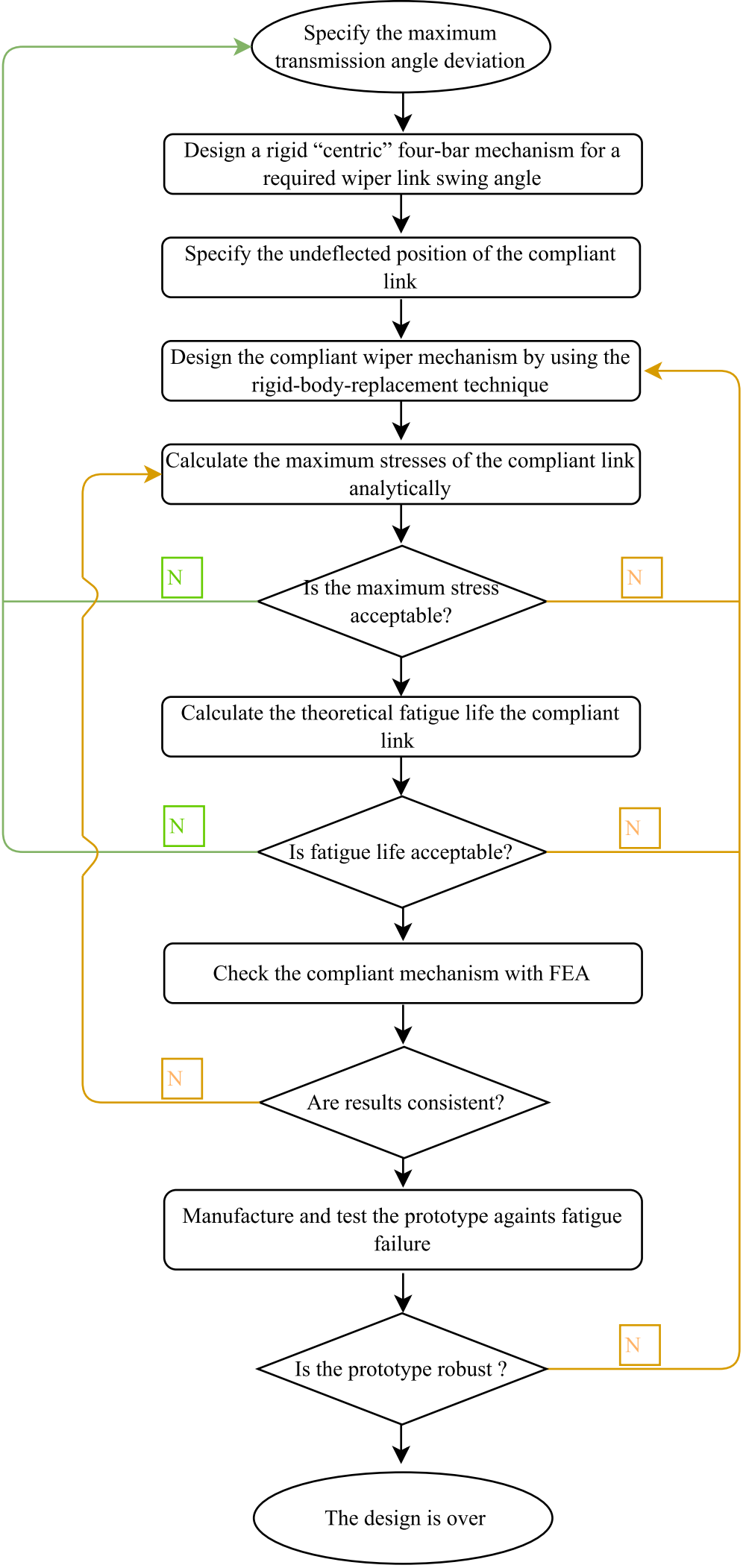
Specify the maximum transmission angle deviation
Design a rigid “centric” four-bar mechanism for a required wiper link swing angle
Specify the undeflected position of the compliant link
Design the compliant wiper mechanism by using the rigid-body-replacement technique
Calculate the maximum stresses of the compliant link analytically
N
Is the maximum stress acceptable?
N
Calculate the theoretical fatigue life the compliant link
N
Is fatigue life acceptable?
N
Check the compliant mechanism with FEA
N
Are results consistent?
Manufacture and test the prototype againts fatigue failure
N
Is the prototype robust ?
The design is over