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

Is the maximum stress acceptable?

Calculate the theoretical fatigue life the compliant link

Is fatigue life acceptable?

Check the compliant mechanism with FEA

Are results consistent?

Manufacture and test the prototype against fatigue failure

Is the prototype robust?

The design is over