Hertz Contact Mechanics - Exercises

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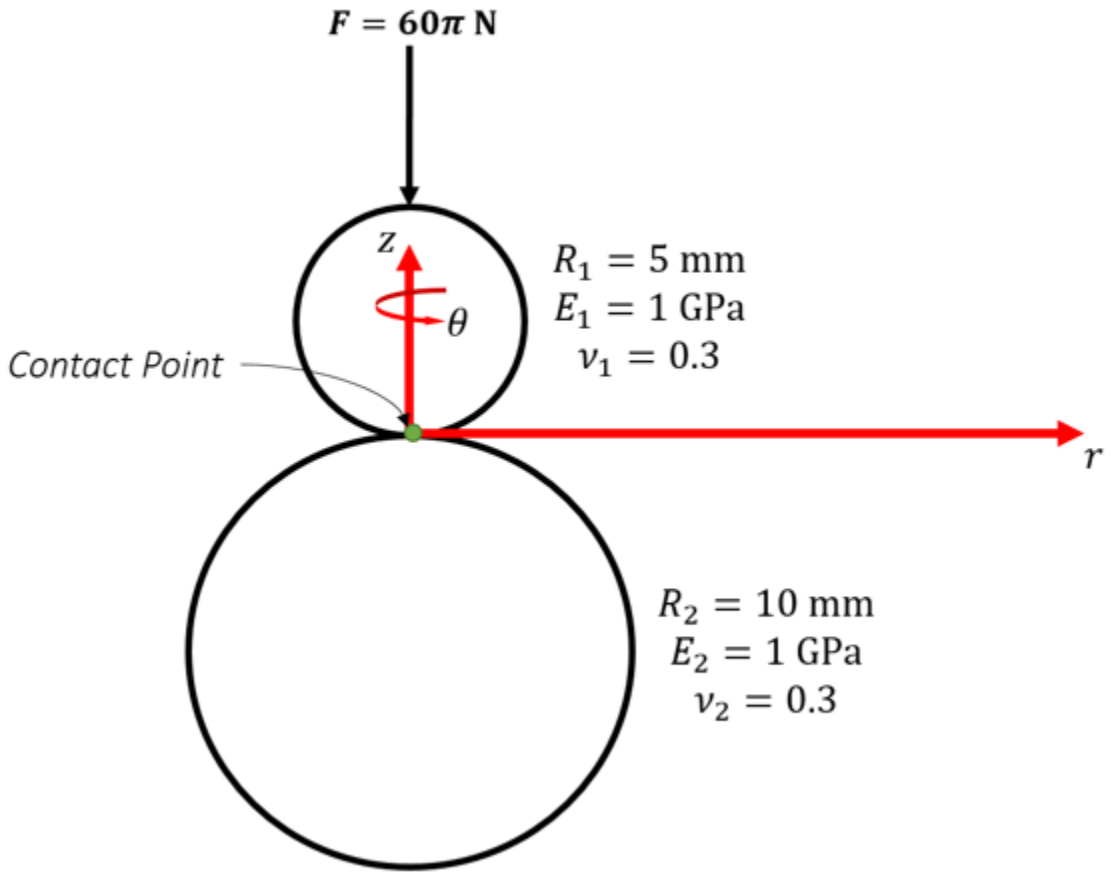
Exercises

As an exercise, consider the following problem of two spheres in contact. While our sphere-to-plate example used R_2 = +, the following example deals with two finite radii.



1. Compute the contact radius and compare with analytical results.
2. Compute the maximum pressure that is induced along the *z*-axis.
3. Check the validity of the numerical results by confirming the force reaction balance, and observe the effect of refining mesh.

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