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Q: How to create a coil model having a structure other than a spiral?
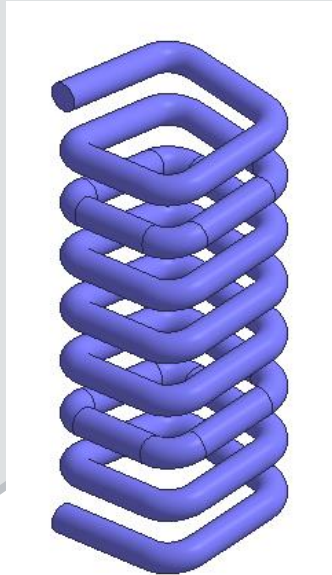
A:

1. Create a coiled path of a wire body.
2. Create a cross section of the coil.
3. Sweep the cross section along the path.

Please refer to the Femtet help menu below for sweeping a body along a path.
Home>Modeling>Drawing Process>How to Modify Objects>Deformation>Sweep Bodies along the Path

# Coiled Model Having Structure Other Than Spiral

Typical spiral coil body are created by sweeping a sheet body of a cross section shape along a spiral wire body.

In this example, a coil body is not a spiral coil body, but appears to be formed such that the wire is wound around a cuboid having fillets.
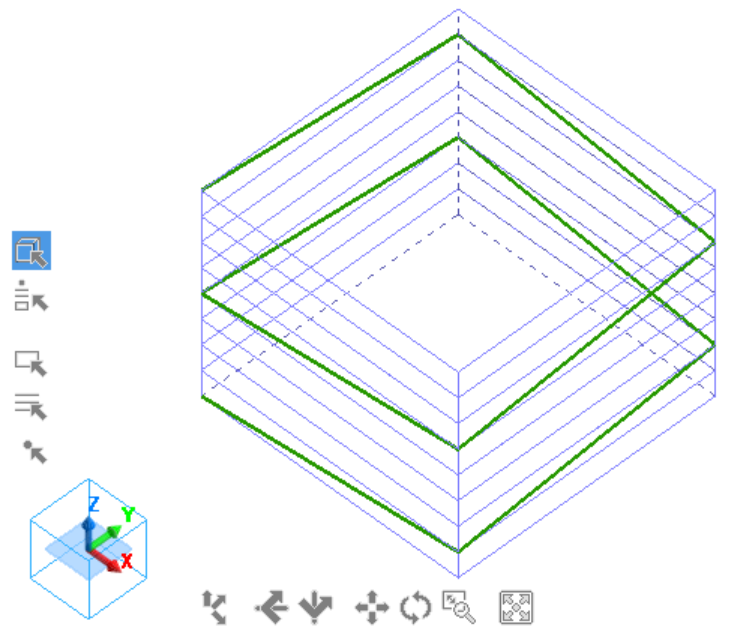
The key to creating the coil body is how to create the wire body through which the cross section is swept.
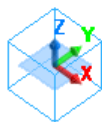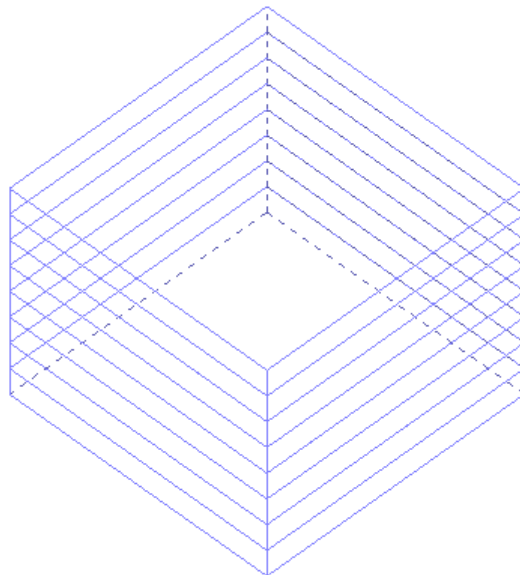
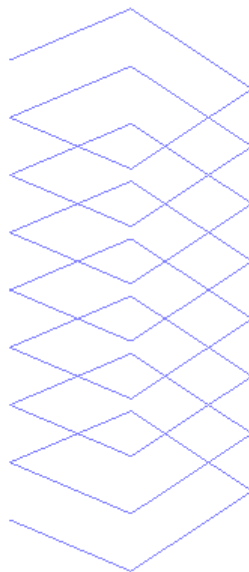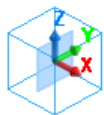Create a basic cuboid for the coil and make copies of it in the Z direction.

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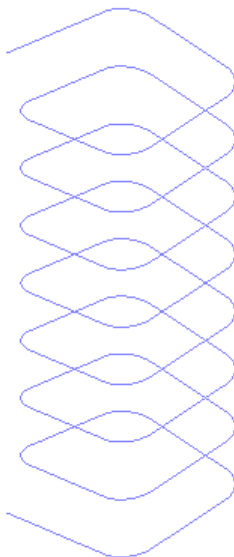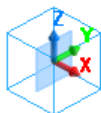
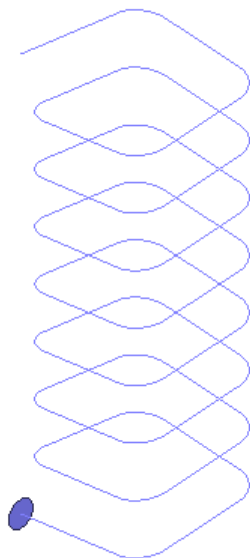Create a framed coil structure by connecting the vertices of the cuboids.

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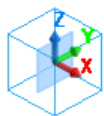

Creating copies of the framed coil structure in the Z direction achieves the intended 3D framed coil structure.

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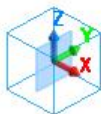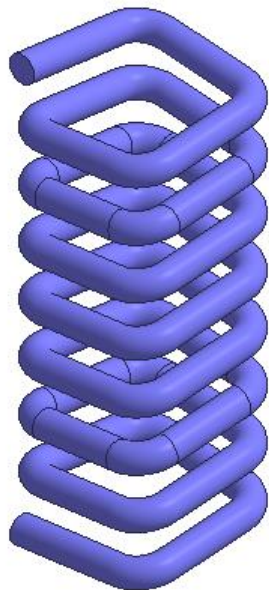Add fillets on the corners.

Create a sheet body of a cross section shape.

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Step 6 of Model Creation

Sweep the sheet body along the framed coil structure to create a coil body.