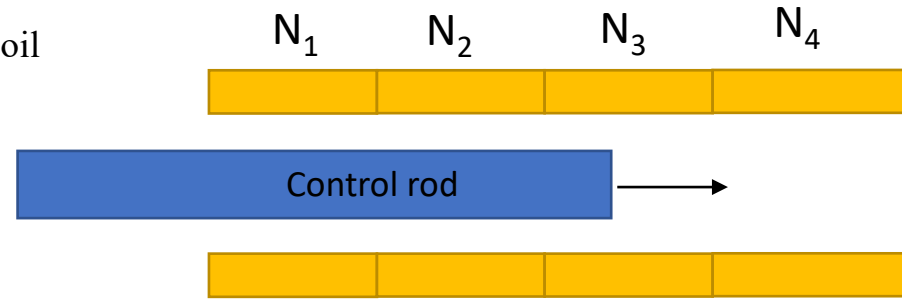


Separated the big coil



Separated into 4 small successive coils ($N = N_1 + N_2 + N_3 + N_4$)

Homogenized Multiturn Conductor

Number of turns:
N 14560

Coil wire conductivity:
 σ_{coil} 6e7[S/m] S/m

Coil wire cross-section area:
From round wire diameter

d_{coil} 0.3[mm] m

direction of increase in displacement



Magnetic Fields (mf)

- Ampère's Law 1
- Axial Symmetry 1
- Magnetic Insulation 1
- Initial Values 1
- Coil 1
- Coil 2
- Coil 3
- Coil 4

Coil name: 1

Conductor model: Homogenized multiturn

Coil group

Coil excitation: Current

Coil current: I_{coil} 0.04 A

Using Coil group for 4 small coils

Results

- Datasets
- Views
- Derived Values
- Global Evaluation 1

Type filter text

Model

- Global definitions
- Component 1 (comp1)
 - Definitions
 - Magnetic Fields
 - Coil parameters
 - mf.ICoil_1 - Coil current - A
 - mf.LCoil_1 - Coil inductance - H
 - mf.PCoil_1 - Coil power - W
 - mf.PhiCoil_1 - Coil concatenated flux - Wb
 - mf.RCoil_1 - Coil resistance (DC) - Ω
 - mf.VCoil_1 - Coil voltage - V
 - Energy and power
 - Global

Calculate coil inductance for N number of turns

Results

- Datasets
- Views
- Derived Values
- Global Evaluation 1

Magnetic Fields

- Coil parameters
 - mf.ICoil_1 - Coil current - A
 - mf.ICoil_2 - Coil current - A
 - mf.ICoil_3 - Coil current - A
 - mf.ICoil_4 - Coil current - A
 - mf.PCoil_1 - Coil power - W
 - mf.PCoil_2 - Coil power - W
 - mf.PCoil_3 - Coil power - W
 - mf.PCoil_4 - Coil power - W
 - mf.PhiCoil_1 - Coil concatenated flux - Wb
 - mf.PhiCoil_2 - Coil concatenated flux - Wb
 - mf.PhiCoil_3 - Coil concatenated flux - Wb
 - mf.PhiCoil_4 - Coil concatenated flux - Wb
 - mf.RCoil_1 - Coil resistance (DC) - Ω
 - mf.RCoil_2 - Coil resistance (DC) - Ω
 - mf.RCoil_3 - Coil resistance (DC) - Ω
 - mf.RCoil_4 - Coil resistance (DC) - Ω
 - mf.VCoil_1 - Coil voltage - V

Double-click or press Enter to add selected expression.

There is no coil inductance to be chosen here???