**Research League Challenge Assignment**

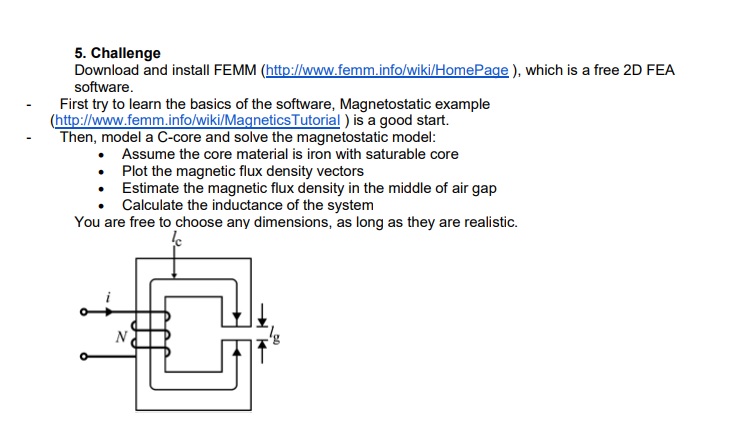


Figure : Challenge

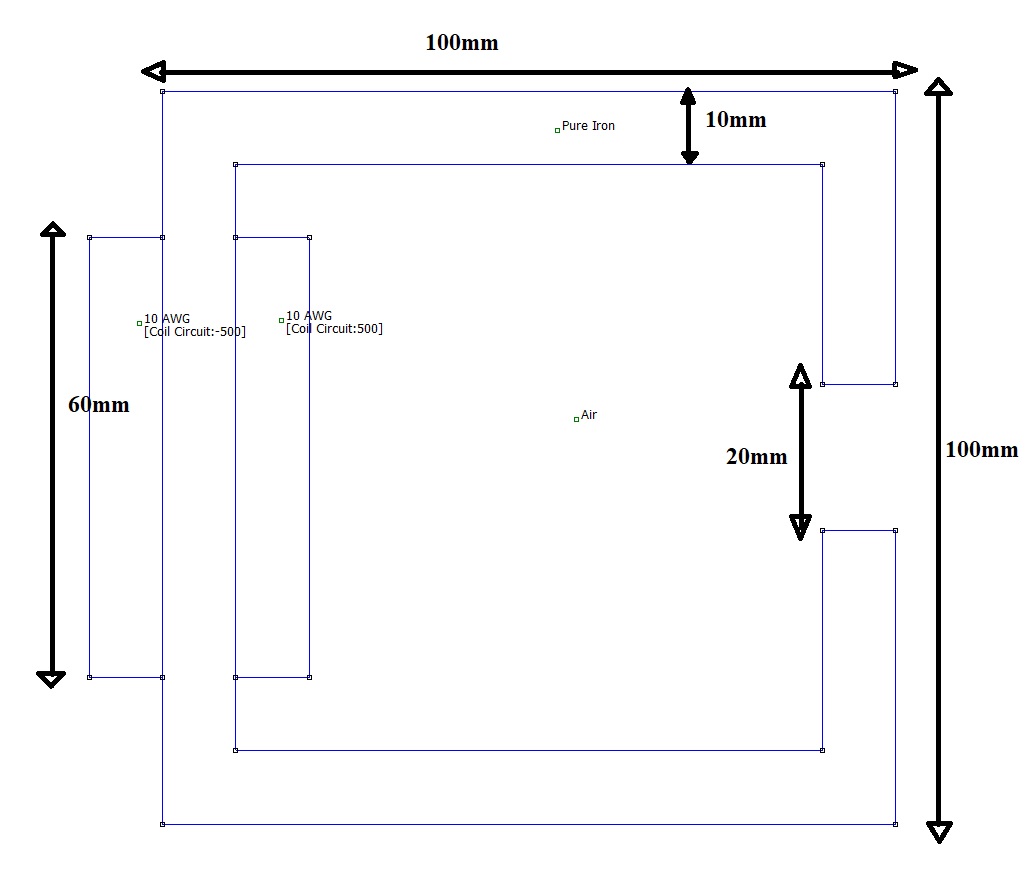


Figure : Schematic of the C-core

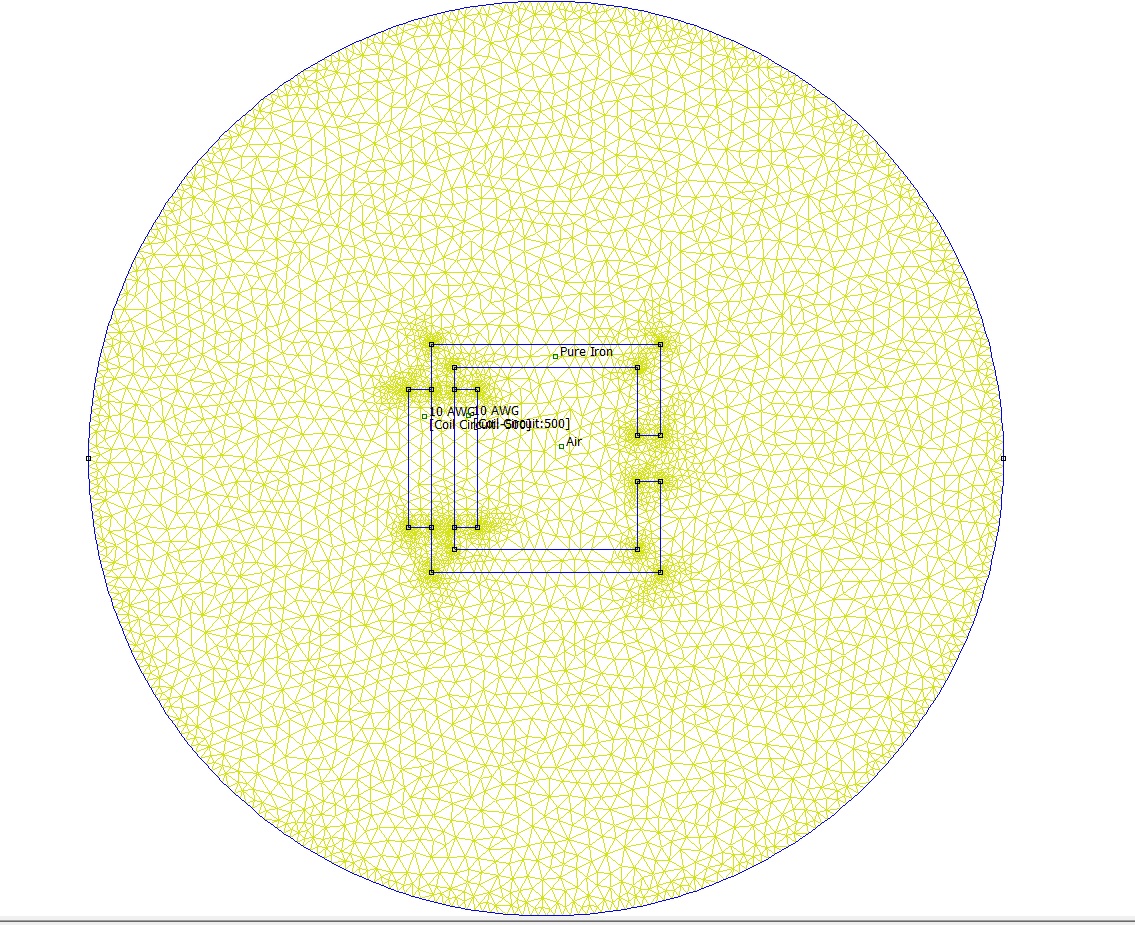


Figure : Restricted area and checking the materials

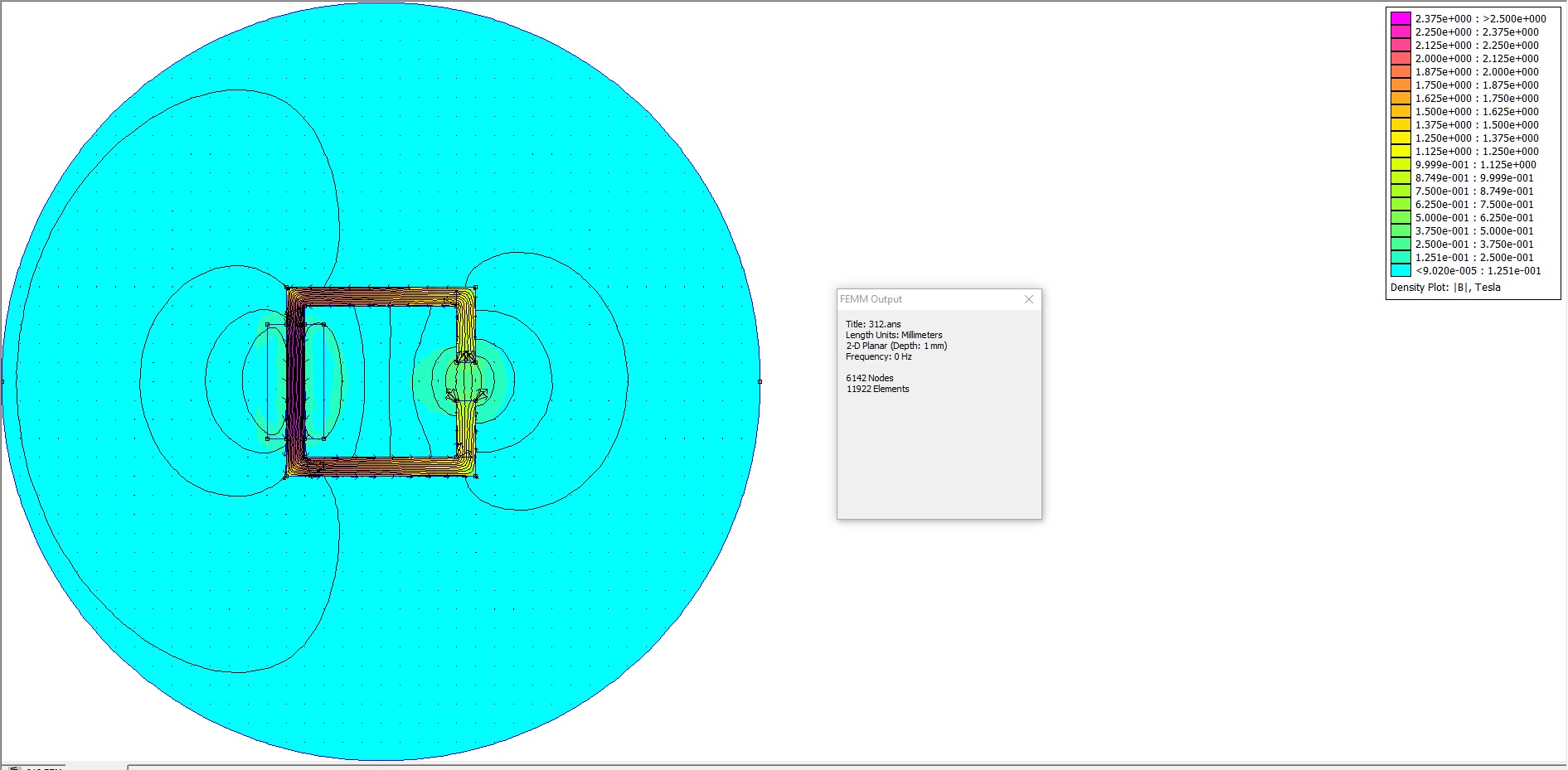


Figure : Colourfull flux density

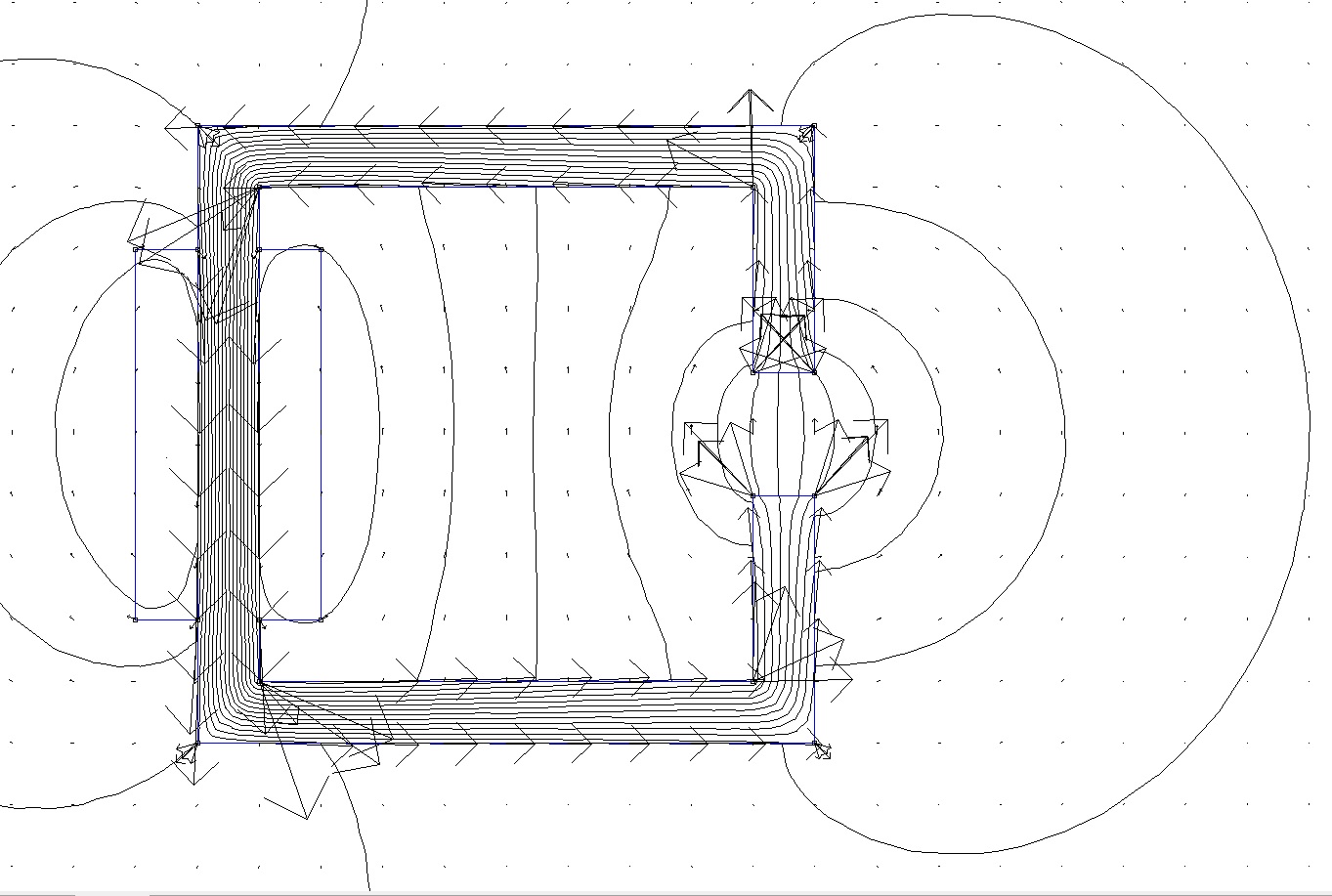


Figure : Magnetic flux density vectors

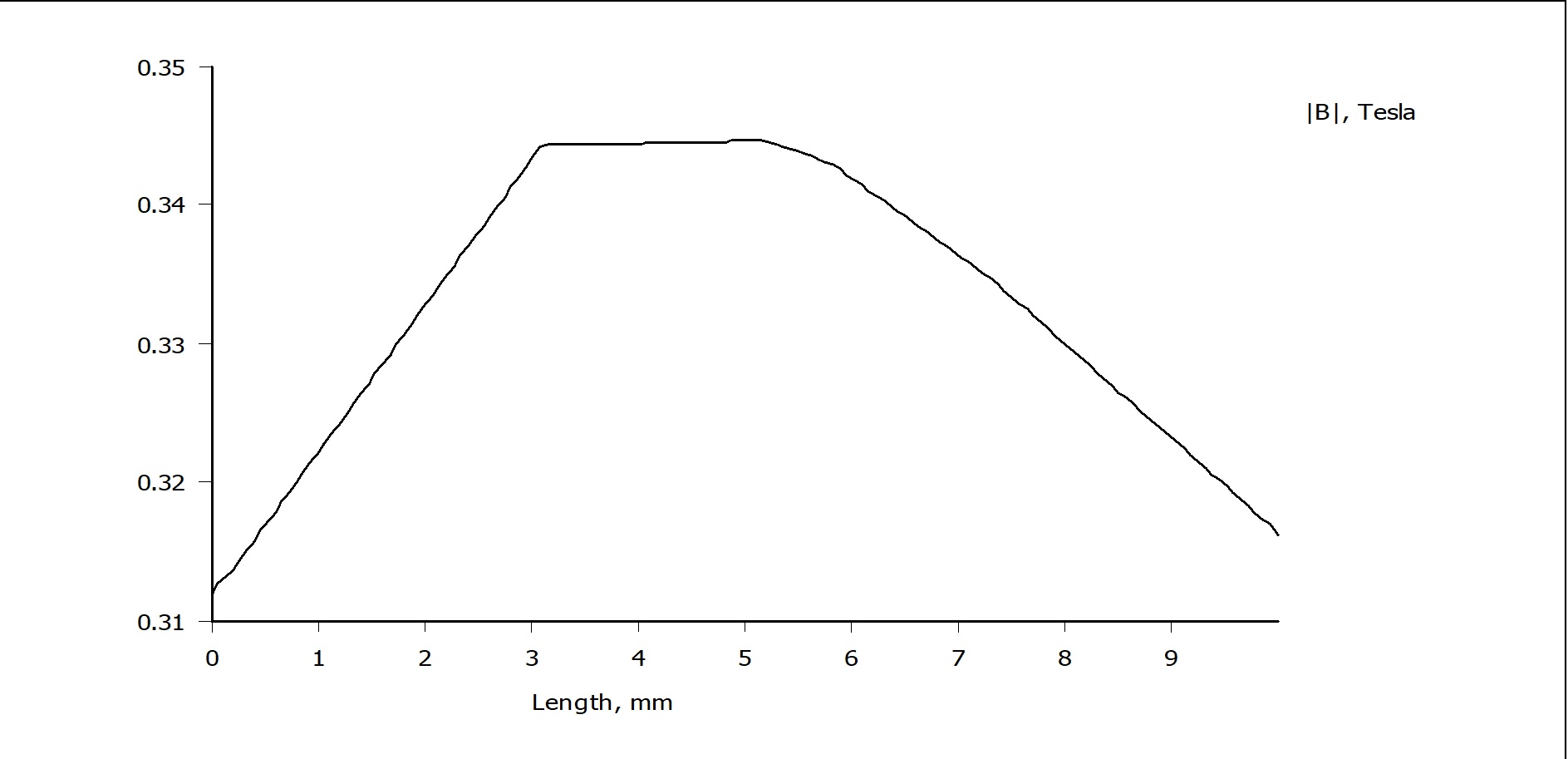


Figure : Magnetic flux density graph at the middle of the air-gap

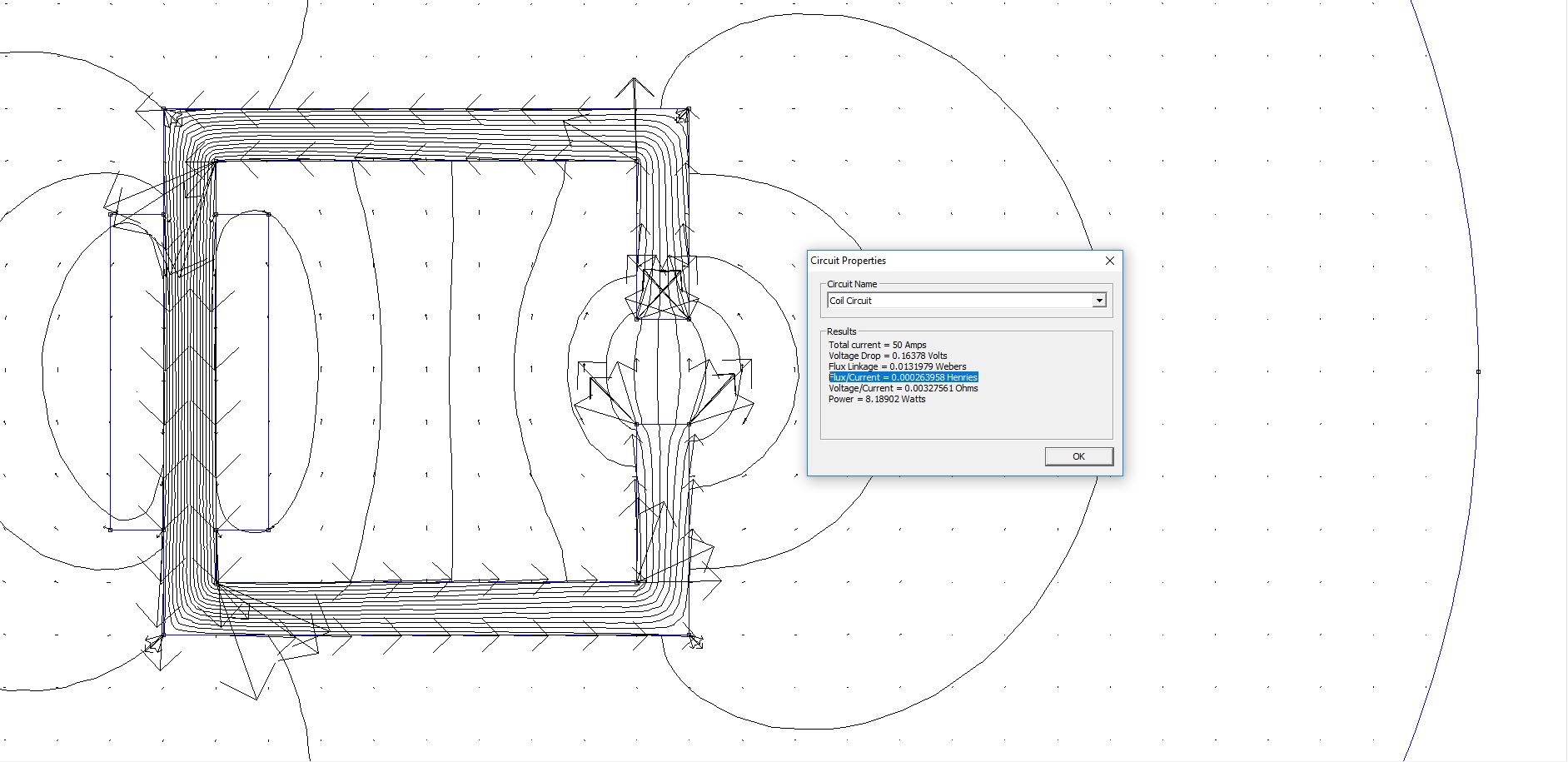


Figure : Inductance calculation from circuit properties

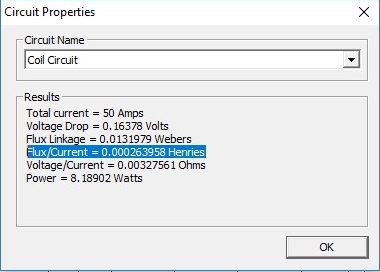


Figure : Inductance