

Calculating Magnetic Flux Density

LEVEL 1	Calculate the force on a conductor of length 0.5m, carrying a current of 3A in a field of flux density 0.05T.
	Calculate the force on a conductor of length 0.4m, carrying a current of 4A in a field of flux density 0.093T.
LEVEL 2	Calculate the magnetic flux density when a force of 0.1N acts on a conductor of length 0.25m, carrying a current of 5A.
	Calculate the magnetic flux density when a force of 0.1N acts on a conductor of length 0.5m, carrying a current of 1A.
LEVEL 3	Calculate the current flowing through a conductor of length 0.3m, which has a force of 0.025N acting on it in a field of flux density of 0.04T.
	Calculate the current flowing through a conductor of length 0.5m, which has a force of 0.06N acting on it in a field of flux density of 0.05T.
LEVEL 4	Calculate the length of a conductor carrying a current of 2.5A in a field of flux density 0.05T with a force of 0.075N acting on it.
	Calculate the length of a conductor carrying a current of 5A in a field of flux density 0.05T with a force of 0.075N acting on it.

$$F = BIl$$