

According to Faraday's law of electromagnetic induction, there will be an EMF induced in the second coil. The coil which gives the desired output voltage due to mutual induction is commonly known as the 'secondary coil'. The purpose of the transformer iron core is to provide a low reluctance path, through which the maximum amount of flux produced by the primary coil is passed through and linked with the secondary coil. Conversely, a transformer that decreases voltage between the primary to secondary coils is defined as a step-down transformer. A transformer that increases voltage between the primary to secondary coils is defined as a step-up transformer. A primary coil