



# Alternating Current Generators: Quick Book (Paperback)

By A Bhatia

Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. An alternating current generator, or AC generator, produces an alternating current, which means the voltage produced alternately reverses from positive to negative polarity, producing a corresponding change in the direction of current flow. Much like a DC generator, an AC generator requires a coil to cut across the force lines of a magnetic field. This coil is attached to two slip rings, which deliver the current to and from the load destination, thus completing the circuit. Alternating current generators are often called Alternators. The magnitude of AC voltage generated by an AC generator is dependent on (1) The strength of the magnetic field (number of lines of force) (2) The speed at which the loop rotates (3) The number of loops of wire that cut the magnetic field. A rotation speed of 3000 revolutions per minute(RPM) produces 50 Hz, and 3600 RPM produce 60 Hz. The electric current in North American homes has a frequency of 60 hertz while in Europe it is 50 Hz. An alternating current motor, or AC motor uses electrical energy to procude motion...



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