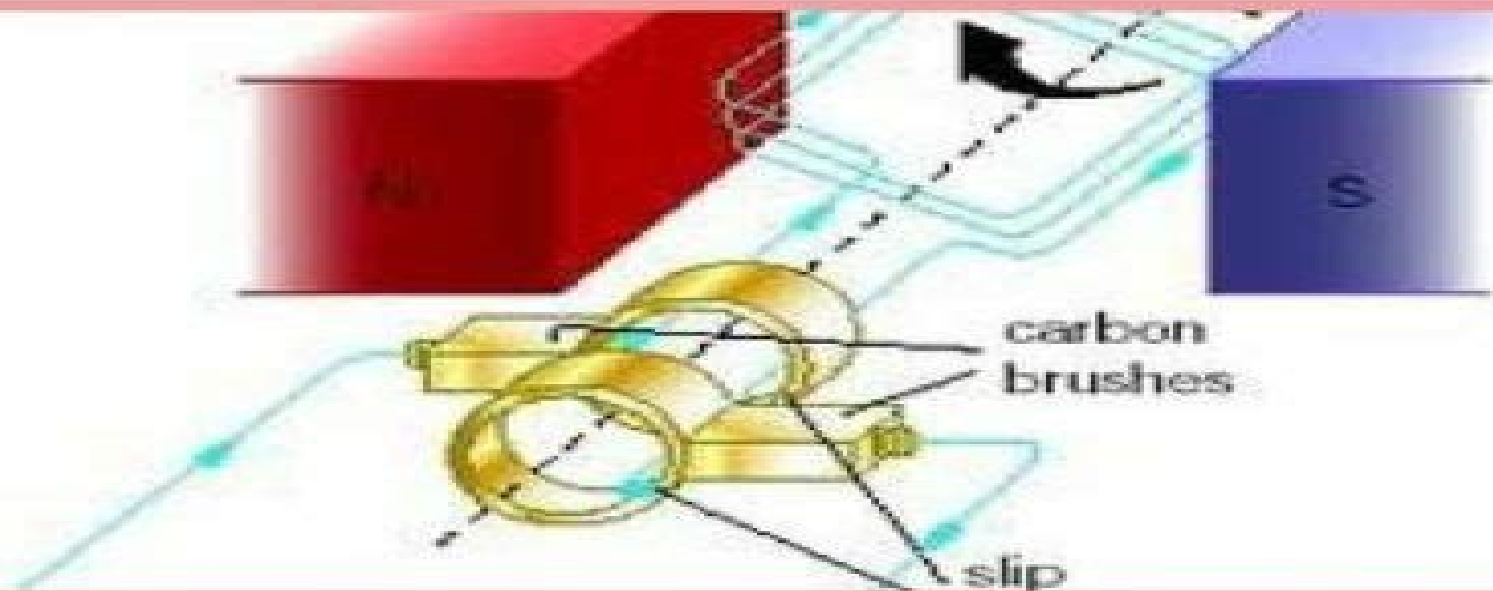


# Alternating Current Generators



Q u i c k B o o k

A Bhatia

# Alternating Current Generators Quick

**Disha Experts**



## **Alternating Current Generators Quick :**

Alternating Current Generators A. Bhatia, 2015-02-18 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 produce motion and torque Very simple AC motors are called Squirrel cage motors these have only one or more stationary coils within which a special kind of mechanical rotor is free to rotate There is no electrical connection to the rotor from the outside Most AC motors require a starter or method of limiting the inrush current to a reasonable level Types of motor starting include reactive capacitor start and inductive start and electronic frequency drives and soft start drives The reactive start method is usually used on fractional horsepower motors and the electronic method is usually reserved for larger motors This 4 hr Quick Book provides a basic understanding of AC motors and generators explaining how to use them how to calculate power and determine torque considerations The course is based entirely on Naval Education and Training Materials NAVEDTRA 14177 Electricity and Electronic Training Series Module 5 and covers Chapter 3 and 4 titled Alternating Current Generators and Alternating Current Motors Learning Objective At the conclusion of this course the reader will be able to Describe the principle of magnetic induction as it applies to AC generators Describe the differences between the two basic types of AC generators Explain the factors that determine the maximum power output of an AC generator Describe the relationships between the individual output and resultant vectorial sum voltages in multiphase generators List the factors that determine the frequency and voltage of the alternator output Describe the purpose and procedure of parallel generator operation List three basic types of AC motors and describe the characteristics of each type Describe the characteristics of a series motor that enable it to be used as a universal motor State the primary application of synchronous motors and explain the characteristics that make them suitable for that application Describe the features that make the AC induction motor the most widely used of electric motors Explain the operation of split phase windings in single phase AC induction motors Describe the effects of shaded poles in single phase AC induction motors **Direct Current Generators** A.

Bhatia, 2015-02-21 A direct current generator or DC generator produces a voltage of constant polarity which means the voltage and current do not change over time DC generators are basically AC generators whose output voltage is switched the

other way round at the proper moment so that the direction of the voltage is always in a single direction The AC generator uses slip rings to transfer the current to the electrical circuit while the DC generator uses a split ring commutator Generators can be very small or quite huge Commercial DC generators are commonly found in traction applications like subways and trains Factories that do electrolysis electroplating and those that produce aluminum caustic soda chlorine and some other industrial materials need large amounts of direct current and use DC generators An electric motor is very similar to a generator except that power is provided to turn the rotors They may in fact be described as generators running backwards When current is passed through the armature of a DC motor a torque is generated by magnetic reaction and the armature revolves Adjustable speed is difficult to obtain with motors whose armatures are connected to fixed frequency power lines AC motors Here is where DC motors shine their rotating field speed depends on the rotor speed itself The speed of DC series motors varies with load and torque varies inversely with speed This makes them particularly suitable to starting high inertia loads such as railway trains Starting a DC motor requires often an external resistor or rheostat to limit the current The value in Ohms of that resistor is reduced in steps as the speed of the motor increases until finally that resistor is removed from the circuit as the motor reaches close to its final speed This 4 hr Quick Book provides discusses salient features of DC motors and generators in detail The course is based entirely on Naval Education and Training Materials NAVEDTRA 14177 Electricity and Electronic Training Series Module 5 and covers Chapter 1 and 2 titled Direct Current Generators and Direct Current Motors Learning Objective At the conclusion of this course the reader will be able to State the principle by which generators convert mechanical energy to electrical energy State the rule to be applied when you determine the direction of induced emf in a coil State what component causes a generator to produce direct current rather than alternating current State how field strength can be varied in a dc generator State the three classifications of dc generators State the term that applies to voltage variation from no load to full load conditions and how it is expressed as a percentage State the factors that determine the direction of rotation in a dc motor State the right hand rule for motors Describe the main differences and similarities between a dc generator and a dc motor List the advantages and disadvantages of the different types of dc motors Discuss the means of controlling the speed and direction of a dc motor Explain the need for a starting resistor in a dc motor

*Alternating Current and Direct Current Generators*, 1992      **Mechanical Energy Storage for Renewable and Sustainable Energy Resources** Abdul Hai Alami, 2019-12-16 The available literature on energy storage technologies in general and mechanical energy storage in particular is lacking in terms of both quantity and quality This edited volume focuses on novel yet uncomplicated ideas that are currently part of the Energy Storage curriculum at the University of Sharjah UAE These techniques have been extensively researched and their prototypes are central to the undergraduate Energy Storage Lab that is associated with the course Although ideally suited for wind energy storage the techniques described are also suitable for renewable energy storage in general and offer high two way efficiency ratings

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