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what is a dc machine a dc machine is an electromechanical device that is used to convert electrical energy into mechanical energy or vice versa a dc machine is an electromechanical energy alteration device the working principle of a dc machine is when electric current flows through a coil within a magnetic field and then the magnetic force generates a torque that rotates the dc motor the dc machines are classified into two types such as dc generator as well as dc motor a dc machine is made out of two essential parts one stationary and one moving called the field and the armature an essential example of a dc machine is a copper coil spinning on its own axis between two magnets these machines are used in batteries to generate unidirectional power this article gives an overview of a dc machine which includes construction working parts emf equation types its losses and applications a simple explanation of the construction and working principle of a dc machine dc motor or dc generator understand the parts of a dc machine and the construction of a dc machine a dc machine is an electro mechanical energy conversion device there are two types of dc machines one is the dc generator and another one is known as dc motor dc machines are types of electrical machines that use dc current in the case of dc motors and generates dc voltages in case of dc generators dc motor transforms electrical power into mechanical power and the generator converts mechanical power into electrical dc machine construction the simple dc machine described in the previous section used a permanent magnet to establish the magnetic field although some dc machines have a permanent magnet field the overwhelming majority use coils to create the field figure 5 is a sketch of the construction of a dc machine an electromechanical device which can convert direct current dc electricity into mechanical energy or mechanical energy into direct current dc electricity is known as a dc machine if the dc machine converts dc electrical energy into mechanical energy it is known as dc motor the large traction motors that drive subway trains and diesel electric locomotives are dc commutator machines although induction machines are making some inroads here and many common appliances use universal motors series connected commutator motors adapted to ac dc generators differ primarily in their commutator design commutation involves positioning the dc generator brushes to synchronize with the change in armature current direction the industrial applications of dc are in electrolytic processes welding processes and variable speed motor drives dc motors are very commonly used as variable speed drives and in applications where severe torque variations occur dc machines are divided into two types dc generators which produce electricity from motion and dc motors which use electricity to create motion dc generators turn movement into electric power while dc motors use electric power to make things move dc machines are the backbone of electromechanical devices there are two main categories of dc machines dc motors and dc generators while dc motors transform dc power into mechanical power dc generators primarily transform mechanical power into dc electrical power subject basic electrical engineeringtopic module 5 introduction of dc machines lecture 37 faculty ranjan rai sirgate academy plus is an effort to electric machinery fundamentals continues to be a best selling machinery text due to its accessible student friendly coverage of the important topics in the field chapman's clear writing illuminates the subject matter for students and practicing engineers overview dc motors dc motors are designed for use with unfiltered scr thyristor type and pwm pulse width modulated type dc adjustable speed drives and on across the line dc controls this chapter will focus on an explanation of the fundamental principles and some practical structures of brushless dc motors f58 4 l structures of brushless dc motors basic brushless dc motor in conventional dc motors the armature is the rotor and the field magnets are placed in the stator data management system for wafer prober network based prober advanced function operation support system for wafer prober about tokyo electron's products and services 5 hours ago washington dc news now emergency workers were at american university tuesday after someone got their hand stuck in a vending machine on campus dc fire and ems posted about the incident on the x platform at 7 21 pm in the post dc fire and ems said it responded to 4400 massachusetts ave in northwest

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