

Abstract:

The DC machine has become a major concern in recent years. The simplest of operation principles of DC motor and generator was explained in this paper. The analysis of voltage generation and torque developed are attempt from the one conductor to whole armature conductors. Conservation of energy and power requires that the power fed into the circuit must come from somewhere; in the generating armature coil, it comes from the mechanical side while, conservation of energy and power requires that the power fed into the emf -element of the circuit must go somewhere; in the motoring coil, it goes to the mechanical side.