

5 armature reaction npTEL

Download Complete File

Understanding Armature Reaction in DC Machines

Q1: What is Armature Reaction?

A1: Armature reaction is the effect of the magnetic field produced by the current-carrying armature windings on the main magnetic field of a DC machine. It can be divided into two components: cross-magnetizing and demagnetizing.

Q2: What is Cross-Magnetizing Armature Reaction?

A2: Cross-magnetizing armature reaction creates a magnetic field perpendicular to the main field. It distorts the main field, causing a shift in the neutral axis. This effect is more pronounced in high-current, low-speed conditions.

Q3: What is Demagnetizing Armature Reaction?

A3: Demagnetizing armature reaction creates a magnetic field opposing the main field. It weakens the main field, reducing the machine's ability to produce torque and voltage. This effect is more significant in low-current, high-speed conditions.

Q4: How does Armature Reaction Affect DC Machine Performance?

A4: Armature reaction can have both positive and negative effects on DC machine performance. Cross-magnetizing armature reaction can improve commutation, while demagnetizing armature reaction can reduce torque and voltage output. The net effect depends on the machine design and operating conditions.

Q5: How can Armature Reaction be Minimized?

A5: Several techniques can be employed to minimize armature reaction, including:

- Using compensating windings
- Skewing the armature slots
- Employing interpoles

the weider system of bodybuilding jubilee with manual bucket honda ct70 st70 st50 digital workshop repair manual 1969 1982 astra convertible 2003 workshop manual the 8051 microcontroller and embedded systems by muhammad ali mazidi free 9mmovies 300mb movies worldfree4u world4ufree khatrimaza solutions to introduction real analysis by bartle and sherbert chan chan partitura buena vista social club sheet music free atlas and principles of bacteriology and text of special bacteriologic diagnosis volume 2 engineering economics riggs solution manual bs 8118 manual iiyama x2485ws manual clark forklift cy40 manual mitsubishi rk502a200 manual ec 6 generalist practice exam uncorked the novices guide to wine hand of dental anatomy and surgery easton wild halsey mcanally financial accounting for mbas montgomery ward sewing machine manuals mayo clinic gastrointestinal imaging review professionalism skills for workplace success 3rd edition repair shop diagrams and connecting tables for lap wound induction motors practical step by atep information and instructions for connecting all types of windings for two phase and three phase motors of 2 to 24 poles whirlpool microwave manuals thinkpad t61 manual scilab code for digital signal processing principles angket minat baca mahasiswa handbook of womens sexual and reproductive health womens health issues ducatis4rmonster 20032006 fullservice repairmanual traditionalbaptist ministersordinationmanual johndeere lawnmower manualsomgx22058cd grade12life orientationpracticecivil trialpractice indianapracticeems fieldtraining officermanual nydohprinciples ofinstrumental analysis6th editionahistory ofinformationstorage andretrieval lampirankuesioner pengaruhpengetahuandan sikaptentang2003 gmcsavana 1500service repairmanual softwarehumanresource managementmathisstudy guidehino maintenancemanual 2012chevychevy ownersmanual motivationto overcomeanswers tothe17 mostasked questionsabout personalfitnesskc johnmachinedrawing renaultmegane andscenic serviceandrepair manualhaynesservice andrepairmanuals isuzuservice dieselengine4hk1 6hk1manual 5 ARMATURE REACTION NPTEL

workshop service repair manuals computer security principles and practice global
edition by william stallings pdf iso/iec 17043:2010 conformity assessment
general requirements for proficiency testing medical terminology for healthcare
professionals plus my medical terminology lab with pearson etext access card
package 8th edition lgwt5070cw manual dashuria talati tme fitnetensami
fraser medical billing policy and procedure manual sample gce o level mathspast
papers free kawasaki z750 z750s 2005 2006 workshop service repair manual
lexmark service manual 44 secrets for playing great soccer marcompianc wg152
guidelines for cruise terminal terms chapter 9 cellular respiration and
fermentation study guide the lord of shadows armstrong michael employee rewards nt
tc1a questions and answers inquiries to and responses from asnts nt tc1a
interpretation panel the brain and behavior an introduction to
behavioral neuroanatomy cambridge medicine paperback by david l