

TECHNOLOGY LEARNING CENTER

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B.TECH POWER SYSTEMS PROJECTS ON MATLAB

2013

- 1 Power Quality Improvement Using 5-Level Flying Capacitor Multilevel Converter Based Dynamic Voltage Restorer For Various Faults
- 2 Single-Phase Single-Stage Transformer less Grid-Connected PV System
- 3 Control of Photovoltaic System with A DC-DC Boost Converter Fed DSTATCOM Using Icos_ Algorithm
- 4 Reduction of Common Mode Leakage Current in Three Phase Transformerless Photovoltaic Grid Connected System
- 5 Improving the Power Quality by Four Leg VSI
- 6 Analysis of Behaviour of Induction Motor with Conventional Converter & Matrix Converter
- 7 Wind driven Induction generator with Vienna rectifier and PV for Hybrid Isolated Generations
- 8 Design and simulation of STATCOM for Power quality enhancement in distributed network under various fault conditions
- 9 Design, Matlab-Simulink Modeling of Novel Hybrid H-Bridge Multilevel Inverter for Micro Grid Application
- 10 Active Harmonic Filtering Using Current Controlled Grid- Connected DG Units with Closed-Loop Power Control
- 11 Reducing Harmonics Distortion in Distribution Network Against The Induction Motor Drive Non Linear Load
- 12 Selective Harmonic Compensation (SHC) PWM for Grid-Interfacing High-Power Converters



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- 13 Control of Wind Energy Conversion System with SOFC Based Fuel Cell at Variable Speed
- 14 Boost Converter analysis to optimise variable speed PMSG Wind Generation System
- 15 Cascaded Seven Levels H-Bridge Inverter Control of DSTATCOM for Compensation of Reactive Power and Harmonics

2012

- 1 Improved Transformerless Inverter With Common-Mode Leakage Current Elimination for a Photovoltaic Grid-Connected Power System
- 2 Power Quality Improvement and Mitigation Case Study Using Distributed Power Flow Controller
- 3 Generalized UPQC system with an improved Control Method under Distorted and Unbalanced Load Conditions
- 4 An Output Regulation-Based Unified Power Quality Conditioner With Kalman Filters
- 5 Interleaved Buck Converter Having Low Switching Losses and Improved Step-Down Conversion Ratio
- 6 A neuro fuzzy-Based Power Management System for Standalone Microgrids With Hybrid Power Supply
- 7 Design and Implementation of Maximum Power Point Tracking (MPPT) Algorithm for a Standalone PV System
- 8 Grid-Connected Boost-Half-Bridge Photovoltaic Microinverter System Using Repetitive Current Control and Maximum Power Point Tracking
- 9 A Transformer-Less High-Power Converter for Large Permanent Magnet Wind Generator Systems



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2011

- 1 Flexible D-STATCOM Performance as a Flexible Distributed Generation in Mitigating Faults
- 2 A New Approach to Multifunctional Dynamic Voltage Restorer Implementation for Emergency Control in Distribution Systems
- 3 Energy Management and Power Control of a Hybrid Active Wind Generator for Distributed Power Generation and Grid Integration
- 4 Fault Detection and Mitigation in Multilevel Converter STATCOMs
- 5 Low Frequency Oscillations Damping by Static Synchronous Series Compensator Equipped with an Auxiliary FLC
- 6 Damping of Low Frequency Oscillations in Power Systems with Neuro- Fuzzy UPFC Controller
- 7 Design and Simulation of Fuzzy Logic controller for DSTATCOM In Power System
- 8 Fuzzy logic controlled shunt active power filter for reactive power compensation and harmonic elimination
- 9 Field Trials and Performance Monitoring of Distributed Solar Panels Using a Low-Cost Wireless Sensors Network
- 10 Direct torque control for doubly fed induction machine-based wind turbines under voltage dips and without crowbar protection
- 11 Energy Efficient Control of Three-Phase Induction Motor Drive
- 12 A High Step-Down Transformerless Single-Stage Single-Switch AC/DC Converter
- 13 Hybrid, open-loop excitation system for a wind turbine-driven stand-alone induction generator
- 14 Fault Ride- Through of a DFIG Wind Turbine using a dynamic voltage Restorer during symmetrical And Asymmetrical Grid Faults



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2010

- 1 A facts device: distributed power-flow controller (dpfc)
- 2 Enhancement of power quality in distribution system using d-statcom
- 3 Power-management strategies for a grid-connected pv-fc hybrid system
- 4 Wind farm to weak-grid connection using upqc custom device
- 5 A fuzzy rule-based approach for islanding detection in distributed generation
- 6 Design of a hybrid pid plus fuzzy controller for speed control of induction motors
- 7 An inrush mitigation technique of load transformers for the series voltage sag compensator
- 8 A STATCOM Control scheme for GRID connected wind energy system for power quality Improvement
- 9 Modeling and Real time Simulation of Non Grid Connected Wind Energy Conversion System
- 10 A Novel Online Fuzzy Control method of Static VAR Compensation for an Effective Reactive Power Control of transmission Line

2009

- 1 A single-phase voltage-controlled grid-connected photovoltaic system with power quality conditioner functionality
- 2 A fast-acting dc-link voltage controller for three-phase dstatcom to compensate ac and dc loads
- 3 Multi converter unified power-quality conditioning system: mc-upqc
- 4 Dynamic modeling and simulation of hybrid power systems based on renewable energy
- 5 Voltage flicker compensation using statcom



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- 6 A versatile control scheme for a dynamic voltage restorer for power quality improvement
- 7 Power quality improvement in conventional electronic load controller for an isolated Power generation
- 8 Reduced rating vsc with a zigzag transformer for current compensation in a three-phase four-wire distribution system
- 9 Design and analysis of dynamic voltage restorer for deep voltage sag and harmonic compensation
- 10 Operation and control of single phase micro sources in a utility connected grid
- 11 Multivariable dynamic model and robust control of a voltage-source converter for power system applications
- 12 Transient stability control of tcsc
- 13 A novel approach of dc voltage control for cascaded h-bridge converter using statcom
- 14 Impact of tcsc on enhancing power system stability
- 15 Sensor less current control of three phase inverter based distributed generation
- 16 Modeling of facts device based on spwm vses
- 17 Upqc pso fuzzy
- 18 Optimization of pi coefficients in dstatcom non linear controller for regulating dc voltage using generic algorithm
- 19 Constant power control and fault-ride-through enhancement of dfig wind turbines with energy storage
- 20 Optimal placement of shunt connected facts device in a series compensated long transmission line
- 21 A new proposal for power quality and custom power improvement: open upqc



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2008

- 1 An integrated hybrid power supply for distributed generation applications fed by nonconventional energy sources
- 2 Study of hvdc light for its enhancement of ac/dc interconnected transmission systems
- 3 Fuzzy logic based control of variable speed induction machine wind generation system
- 4 Ann based svc switching at distribution level for minimal injected harmonics
- 5 Decoupled control of doubly fed induction generator for wind power system
- 6 Classification of power quality problems using wavelet based artificial neural network
- 7 Control strategies for distribution static compensator for power quality improvement
- 8 Interline power flow controller (ipfc) based damping controllers for damping low frequency oscillations in a power system

2007-2006

- 1 Interline unified power quality conditioner
- 2 Enhancement of voltage quality in isolated power systems
- 3 Power upgrading of transmission line by combining ac-dc transmission
- 4 Fuzzy control of fuel cell distributed generation systems
- 5 Distributed facts—a new concept for realizing grid power flow control
- 6 Direct torque control of a three phase induction motor using a hybrid pi/fuzzy controller



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- 7 Simulation of d-statcom and dvr in power systems
- 8 Fractional frequency transmission system
- 9 Application of voltage and current controlled voltage source inverter for distributed generating system
- 10 Wavelet based strategy for upqc control system used for multi gating voltage sag
- 11 Modeling & simulation for voltage sags/swells mitigation using dvr
- 12 A comparative study of control algorithms for dstatcom for load compensation
- 13 Comparative evaluation of two models of upqc for suitable interface to enhance power quality
- 14 Dynamic modeling, design and simulation of a wind/fuel cell/ultracapacitor-based hybrid power generation system



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