

TECHNOLOGY LEARNING CENTER

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Power Electronics & Drives

IEEE-2013

1. A Carrier-Based Neutral Voltage Modulation Strategy for Multilevel Cascaded Inverters Under Unbalanced DC Sources
2. Space Vector Pulse width Amplitude Modulation for a Buck-Boost Voltage/Current Source Inverter
3. A DC-Link Voltage Self-Balance Method for a Diode-Clamped Modular Multilevel Converter With Minimum Number of Voltage Sensors
4. A Family of Three-Switch Three-State Single-Phase Z-Source Inverters
5. A New ZVS DC/DC Converter with Three APWM Circuits
6. Z-Source Five Leg Inverter
7. A New Strategy to Control Three-Phase Shunt Active Filters under Balanced and Unbalanced Conditions by Controlling One Phase Current
8. Modified Indirect Vector Control Technique for Current-Source Induction Motor Drive
9. Analysis and Design of Current-Fed High Step Up Quasi-Resonant DC-DC Converter for Fuel Cell Applications
10. Design, Analysis and Simulation of Linear Controller of a STATCOM for Reactive Power Compensation on Variation of DC link Voltage
11. Analysis and Implementation of a Bidirectional Double-Boost DC-DC Converter
12. Digital Plug-In Repetitive Controller for Single-Phase Bridgeless PFC Converters



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- 13.A New DC/DC Converter With Wide-Range ZVS and Reduced Circulating Current
- 14.Double-port Interface for Small Scale Renewable Sources Integration
- 15.A Generalized Cascaded Multilevel Inverter Using Series Connection of Sub multilevel Inverters
- 16.A High-Efficiency Solar Array Simulator Implemented by an *LLC* Resonant DC–DC Converter
- 17.A High Step-Up Three-Port DC–DC Converter for Stand-Alone PV/Battery Power Systems
- 18.A High-Efficiency Wide-Input-Voltage Range Switched Capacitor Point-of-Load DC–DC Converter
- 19.A High-Performance SPWM Controller for Three-Phase UPS Systems Operating Under Highly Nonlinear Loads
- 20.A Large-Power Voltage Source Converter for FACTS Applications Combining Three-Level Neutral-Point-Clamped Power Electronic Building Blocks
- 21.A Novel Absolute Value Logic SPWM Control Strategy Based on De-Re-Coupling Idea for High Frequency Link Matrix Rectifier
- 22.A Novel DC Voltage Control Method for STATCOM Based on Hybrid Multilevel H-Bridge Converter
- 23.A Novel Single-Reference Six-Pulse-Modulation (SRSPM) Technique-Based Interleaved High-Frequency Three-Phase Inverter for Fuel Cell Vehicles
- 24.An Advanced Current Control Strategy for Three-Phase Shunt Active Power Filters



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25. An Improved Buck PFC Converter With High Power Factor
26. Analysis and Improved Operation of a PEBB-Based Voltage-Source Converter for FACTS Applications
27. Capacitor Voltage Regulation in Single-DC-Source Cascaded H-Bridge Multilevel Converters Using Phase-Shift Modulation
28. Cascaded Current-Voltage Control to Improve the Power Quality for a Grid-Connected Inverter With a Local Load
29. Common-Mode Voltage Reduction Pulse width Modulation Techniques for Three-Phase Grid-Connected Converters
30. D-STATCOM With Positive-Sequence Admittance and Negative-Sequence Conductance to Mitigate Voltage Fluctuations in High-Level Penetration of Distributed-Generation Systems
31. DTC Scheme for a Four-Switch Inverter-Fed Induction Motor Emulating the Six-Switch Inverter Operation
32. Dual-Buck Half-Bridge Voltage Balancer
33. Fault Current Interruption by the Dynamic Voltage Restorer
34. Five-Level Inverter for Renewable Power Generation System
35. Generalized Multi-cell Switched-Inductor and Switched-Capacitor Z-Source Inverters
36. High Boost Ratio Hybrid Transformer DC-DC Converter for Photovoltaic Module Applications
37. High-Efficiency Digital-Controlled Interleaved Power Converter for High-Power
38. PEM Fuel-Cell Applications



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- 39.High-Efficiency Single-Input Multiple-Output DC-DC Converter
- 40.Hybrid Modulation Strategies for Eliminating Low-Frequency Neutral-Point Voltage Oscillations in the Neutral-Point-Clamped Converter
- 41.Hybrid Seven-Level Cascaded Active Neutral-Point-Clamped-Based Multilevel Converter Under SHE-PWM
- 42.Improved Trans-Z-Source Inverter With Continuous Input Current and Boost Inversion Capability
- 43.Introduction of Doubly Fed Induction Machine in an Electric Vehicle
- 44.Low-Frequency AC Transmission for Offshore Wind Power
- 45.Modeling and Analysis of a Nonlinear Adaptive Filter Control for Interline Unified Power Quality Conditioner
- 46.Modeling and Control Design of the Interleaved Double Dual Boost Converter
- 47.Modeling and unified tuning of distributed power flow controller for damping of power system oscillations
- 48.Multiple-Loop Digital Control Method for a 400-Hz Inverter System Based on Phase Feedback
- 49.New Breed of Network Fault-Tolerant Voltage-Source-Converter HVDC Transmission System
- 50.Operation of a Three-Phase Power Converter Connected to a Distribution System
- 51.Pulse width-Modulated Dual-Half-Controlled Converter
- 52.Reconfigurable Solar Converter: A Single-Stage Power Conversion PV-Battery System
- 53.Selective Harmonic Mitigation Technique for Cascaded H-Bridge



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Converters With Non-equal DC Link Voltages

- 54. Simulation Comparisons and Implementation of Induction Generator Wind Power Systems
- 55. A Single-Phase Photovoltaic Inverter Topology With a Series-Connected Energy Buffer
- 56. Space-Vector PWM Control Synthesis for an H-Bridge Drive in Electric Vehicles
- 57. Step-up AC Voltage Regulators with High-Frequency Link
- 58. Study on Voltage Unbalance Improvement Using SFCL in Power Feed Network With Electric Railway System
- 59. The Impact of Wind Power Implantation in Transmission Systems
- 60. Voltage Balancing control in 3-Level Neutral-Point Clamped Inverters Using Triangular Carrier PWM Modulation for FACTS Applications
- 61. Voltage Vector Approximation Control of Multistage—Multilevel Inverter Using Simplified Logic Implementation
- 62. Full-Bridge Three-Port Converters With Wide Input Voltage Range for Renewable Power Systems.
- 63. An LLCL Power Filter for Single-Phase Grid-Tied Inverter.
- 64. A New Cascaded Multilevel Inverter with Reduced Number of Switches.
- 65. A Low Cost Fly back CCM Inverter for AC Module Application.
- 66. Three-Phase Hybrid Multilevel Inverter Based on Half-Bridge Modules.
- 67. A Novel Single-Phase Five-Level Inverter With Coupled Inductors.
- 68. High Efficiency AC-AC Power Electronic Converter Applied to Domestic Induction Heating.



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69. Asymmetrical Full-bridge Converter With High-Voltage Gain.
70. A Battery with Ultra Capacitor hybrid energy storage system in Electric Vehicles.
71. Analysis and Design of Single-Stage AC/DC Resonant Converter.
72. A Novel Loaded-Resonant Converter for the Application of DC-to-DC Energy Conversions.
73. A Novel ZVZCS Full-Bridge DC/DC Converter Used for Electric Vehicles.
74. Analysis and Design of a Three-Level LLC Series Resonant Converter for High- and Wide-Input-Voltage Applications.
75. A ZVS Interleaved Boost AC to DC Converter used in Plug in EV's
76. High-Frequency Resonant SEPIC Converter With Wide Input and Output Voltage Ranges.
77. Interleaved Buck Converter Having Low Switching Losses and Improved Step-Down Conversion Ratio
78. Improved configurations for DC to DC buck and boost converters.
79. Improved Modulation Schemes for Indirect Z-source Matrix Converter With Sinusoidal Input and Output Waveforms.
80. A Single to Three-Phase Z-source Matrix Converter.
81. An Improved MPWM for current-fed Z-source Inverter with high current gain and low current stress.
82. Step-Up DC/DC Converters With Cascaded Quasi-Z-Source Network.
83. Control and Performance of a Cascaded Shunt Active Power Filter for Aircraft Electric Power System.
84. High power bidirectional dc-dc converter for aerospace applications.
85. A simple and low-cost method for three-phase induction motor control in



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- high-speed applications.
86. A novel variable-speed wind energy system using induction generator and six-switch AC/AC converter.
87. DFIG wind turbine three single phase grid side converters strategy control.
88. Implementation of variable-speed asynchronous drive fed by CSI.
89. A versatile control modulator for optimal bidirectional battery charging.
90. Integrated Power Electronics Interface for Plug-In EHV Applications.
91. Sensor less Predictive DTC for the PM Synchronous Machine.
92. Simplified power converter for integrated traction energy storage.
93. Simulation Single Phase Shunt Active Filter Based on p-q technique using MATLAB/Simulink Development Tools Environment.
94. Double input z source dc –dc converter.
95. Analysis and implementation of a novel bidirectional dc-dc converter.
96. 11-level cascaded h-bridge grid-tied inverter interface with solar panel.
97. High performance hybrid cascaded inverter for renewable energy system.
98. A New Battery or Ultra-Capacitor hybrid energy storage system for Electric, Hybrid and Plug-in hybrid electric vehicles.
99. An Isolated dc/dc converter using high-frequency unregulated LLC resonant converter for fuel cell application.
100. Implementation and Control of an Hybrid Multilevel Converter with Floating DC-links for Current Waveform Improvement
101. Direct Torque Control for Doubly Fed Induction Machine-Based Wind Turbines Under Voltage Dips and Without Crowbar Protection



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IEEE 2012

RENEWABLE ENERGY | MULTILEVEL | RESONANT CONVERTERS | MATRIX CONVERTER

- 1 Modeling and Control of a New Three-Input DC–DC Boost Converter for Hybrid PV/FC/Battery Power System
- 2 Analysis and Design of a Zero-Current Switching Forward Converter With Simple Auxiliary Circuit
- 3 A ZVS Interleaved Boost AC to DC Converter used in Plug in Electric Vehicles
- 4 Generalized average modeling of dual active bridge dc-dc converter
- 5 Analysis and Design of Single-Stage AC/DC LLC Resonant Converter
- 6 High-Frequency Resonant SEPIC Converter With Wide Input and Output Voltage Ranges
- 7 Full-Bridge Three-Port Converters With Wide Input Voltage Range for Renewable Power Systems
- 8 Switched Z-Source Isolated Bidirectional DC–DC Converter and Its Phase-Shifting Shoot-Through Bivariate Coordinated Control Strategy
- 9 Analysis and Design of a Bidirectional Isolated DC–DC Converter for Fuel Cells
- 10 Asymmetrical Full-bridge Converter With High-Voltage Gain
- 11 A Novel ZVZCS Full-Bridge DC/DC Converter Used for Electric Vehicles
- 12 High power bidirectional dc-dc converter for aerospace applications



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- 13 Analysis and Design of a Zero-Voltage-Switching and Zero-Current-Switching Interleaved Boost Converter
- 14 Analysis and Design of a Single-Stage High-Power- Factor Dimmable Electronic Ballast for Electrode less Fluorescent Lamp
- 15 Interleaved Buck Converter Having Low Switching Losses and Improved Step-Down Conversion Ratio
- 16 Design and Performance of a Bidirectional Isolated DC–DC Converter for a Battery Energy Storage System
- 17 Switched Reluctance Motor Drive With External Rotor for Fan in Air Conditioner
- 18 Extended phase –shift control of isolated bidirectional dc-dc converter for power Distribution in microgrid
- 19 High Efficiency AC–AC Power Electronic Converter Applied to Domestic Induction Heating
- 20 A Low Cost Fly back CCM Inverter for AC Module Application
- 21 A Novel Single-Phase Five-Level Inverter With Coupled Inductors
- 22 A Three-port Fly back for PV Micro inverter Applications With Power Pulsation Decoupling Capability
- 23 A Switched-Capacitor DC–DC Converter With High Voltage Gain and Reduced Component Rating and Count
- 24 Low cost direct torque control algorithm for induction motor without ac phase current sensor

BLDC | DC SERVO | SRM | PI-PID-FUZZY LOGIC | BI DIRECTIONAL| SOFT SWITCHING



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- 25 Active-Power Control of Individual Converter Cells for a Battery Energy Storage System Based on a Multilevel Cascade PWM Converter
- 26 Hybrid Renewable Energy System Using DFIG and Multilevel Inverter
- 27 SWISS Rectifier – A Novel Three-Phase Buck-Type PFC Topology for Electric Vehicle Battery Charging
- 28 A Single to Three-Phase Z-source Matrix Converter
- 29 Three-Phase Switched-Inductor Z-Source Matrix Converter
- 30 Novel Intelligent Hybrid Techniques for Speed Control of Electric Drives fed by Matrix Converter
- 31 Multi level inverter capable of power factor control with Dc Link Switches
- 32 Hybrid Cascade Multilevel Inverter Using a Single DC Source for Open-End Winding Induction Motors
- 33 Experimental Analysis of a Cascaded Multilevel Inverter Using Buck EIE Converters
- 34 A New Cascaded Multilevel Inverter with Reduced Number of Switches
- 35 Digital simulation of renewable energy source controlled z-source inverter system
- 36 Z-Source Three-Phase Four-Switch Inverter with DC Link Split Capacitor and Comprehensive Investigation of Z-Source Three-Phase Four-Switch Inverters
- 37 Low Cost Transformer Isolated Boost Half-bridge Micro-inverter for Single-phase Grid-connected Photovoltaic System
- 38 Intelligent Control Design and Implementation of DC Servo Motor
- 39 Sliding Mode Scheme For Speed And Current Control Of Brushless DC (BLDC) Motor



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- 40 A Comparative Study of Sensor and Sensor less Control of Four-Switch Inverter Fed Permanent Magnet Brushless DC Motor
- 41 Reduced Voltage Combined AC Motor and Drive System for Safe Electric Vehicle
- 42 Hybrid PID-Like Fuzzy Logic Speed Drive of Switched Reluctance Motor
- 43 Modularized Buck-Boost + Cuk Converter for High Voltage Series Connected Battery Cells
- 44 Interleaved Soft-Switching Coupled-Buck Converter with Active-Clamp Circuits
- 45 High Performance of Fuzzy Direct Power Control for PWM Converters
- 46 Indirect Vector Control of Induction Motor Using Fuzzy Sliding Mode Controller
- 47 Direct Flux and Torque Control of Induction Motor Drive for Speed Regulator using PI and Fuzzy Logic Controllers
- 48 Comparative Evaluation of Soft-Switching, Bidirectional, Isolated AC/DC Converter Topologies
- 49 Simplified Generic On-line PWM Technique for Single Phase Grid Connected Current Source Inverters
- 50 Solar Photovoltaic Power Conversion Using Modular Multilevel Converter



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IEEE 2011

RENEWABLE ENRGY | CONVERTER | TRACTION SYSTEM |

- 51 Totem-Pole Boost Bridgeless PFC Rectifier With Simple Zero-Current Detection and Full- Range ZVS Operating at the Boundary of DCM/CCM
- 52 Interleaved soft switching boost converter for PV power generation
- 53 Modeling and simulation of single-phase semi-z-source inverter
- 54 Simplified power converter for integrated traction energy storage
- 55 Double input z source dc –dc converter
- 56 Analysis and implementation of a novel bidirectional dc-dc converter
- 57 A Safety Enhanced, High Step-Up DC–DC Converter for AC Photovoltaic Module Application
- 58 Simulation and hardware implementation of conductance MPPT with direct control Method Using CUK converter
- 59 11-level cascaded h-bridge grid-tied inverter interface with solar panel
- 60 High performance hybrid cascaded inverter for renewable energy system
- 61 A new battery or ultra-capacitor hybrid energy storage system for electric, hybrid and plug-in hybrid electric vehicles
- 62 A Simple Digital Power-Factor Correction Rectifier Controller



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- 63 An isolated dc/dc converter using high-frequency unregulated llc resonant converter for fuel cell application
- 64 High-Efficiency DC-DC Converter With Fast Dynamic Response for Low-Voltage Photovoltaic Sources
- 65 Simulation and implementation of a new topology in multi-output dc-dc resonant converters based on SWRC converters
- 66 Pi, fuzzy logic controlled shunt active power filter for three-phase four-wire systems with balanced, unbalanced and variable loads
- 67 Implementation of sine-wave input/output BLDC inverter for low inductance
- 68 Analysis of ZVS Non-Isolated Bidirectional DC-DC Converter
- 69 Implementation of sine-wave input/output BLDC inverter for low inductance shipboard PM motor drives using modular power platform

RENEWABLE ENRGY | CONVERTER | MICRO GRID | FUEL CELL

- 70 Implementation of sine-wave input/output BLDC inverter for low inductance shipboard PM motor drives using modular power platform
- 71 A high efficiency solar array simulator implemented by an LLC resonant dc-dc converter
- 72 A High Step-Down Transformer less Single-Stage Single-Switch AC/DC Converter
- 73 A Modified High-Efficiency LLC Converter with Two Transformers for Wide Input Voltage Range Applications
- 74 Analysis and Design of a Push-Pull Quasi-Resonant Boost Power Factor Corrector
- 75 Design of Closed-loop Buck-boost Converter for LED Driver Circuit
- 76 High Efficiency Digital Controlled Interleaved Power Converter for High Power PEM Fuel Cell Applications



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- 77 Application of four-switch based three-phase grid connected inverter to connect renewable energy source to a generalized unbalanced micro-grid system
- 78 Common-Mode Voltage Reduction Pulse-width Modulation Techniques for Three-Phase Grid Connected Converters
- 79 Improved Pulse Regulation Control Technique for Switching DC-DC Converters Operating in DCM
- 80 Extended Range ZVS Active-Clamped Current- Fed Full-Bridge Isolated Dc/Dc Converter for Fuel Cell Applications: Analysis, Design and Experimental Results

IEEE 2010

RENEWABLE ENERGY | MULTILEVEL | RESONANT CONVERTERS | Z- SOURCE INVERTER |

- 81 A Hybrid Wind-Solar Energy System: A New Rectifier Stage Topology
- 82 Design and construction of a four-channel interleaved buck dc/dc converter for an electric boat application
- 83 An interleaved totem-pole boost bridgeless rectifier with reduced reverse-recovery problems for power factor correction
- 84 A ZCS full-bridge converter without voltage overstress on the switches
- 85 Hybrid switching scheme for LLC series-resonant half-bridge dc-dc converter in a wide load range



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- 86 A ZCS full-bridge converter without voltage overstress on the switches
- 87 Bidirectional dc-dc converter for aircraft electric energy storage systems
- 88 An integrated four-port dc/dc converter for renewable energy applications
- 89 Isolated bidirectional full-bridge dc-dc converter with a fly back snubber
- 90 A novel switching signals generation method for hybrid multilevel inverters
- 91 Modified z-source single-phase inverter for single-phase pm synchronous motor drives
- 92 Embedded control z-source inverter fed induction motor
- 93 Z-source Inverter Bases Permanent Magnet Brushless DC Motor Drive
- 94 Space vectors modulation for nine-switch converters
- 95 Analysis of the PWM boost type rectifier under unbalanced input voltage conditions
- 96 New converter for switched reluctance motor drive with wide speed range operation

Z- SOURCE INVERTER

- 97 Double flying capacitor multi cell converter based on modified phase-shifted pulse width modulation
- 98 Flying-capacitor-based chopper circuit for dc capacitor voltage balancing in diode-clamped multilevel inverter
- 99 Multilevel multiphase feed forward space-vector modulation technique
- 100 An improved control method for inductive load of z-source inverter
- 101 A new direct peak dc-link voltage control strategy of z-source inverters

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Z- SOURCE INVERTER |



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- 102 DC to AC cascaded H bridge multilevel boost inverter for electric and hybrid electric vehicles
- 103 Improvement of the Electric Power Quality Using Series Active and Shunt Passive Filters
- 104 A new resonant active clamping technique for bi-directional converters in hevs.
- 105 Common-mode voltage reduction modulation techniques for three-phase grid connected converters
- 106 FPGA -based intelligent-complementary sliding-mode control for PMSM servo-drive system
- 107 Reactive Power Allocation in Pool Based Power System Utilizing Proportional Sharing Method
- 108 Z-source inverter based grid connected for PMSG wind power system
- 109 Highly Efficient High Step-Up Converter for Fuel-Cell Power Processing Based on Three-State Commutation Cell
- 110 Predictive Current Controller for Sensor less Induction Motor Drive
- APPLICATION BASED INDUSTRIAL DRIVES CONTROL | TRACTION SYSTEM | AIRCRAFT |**
- 111 A ZVS Interleaved Boost AC/DC Converter Used in Plug-in Electric Vehicles
- 112 A high efficiency synchronous power converter for photovoltaic applications
- 113 Nine level Double Flying Capacitor Multi cell Converter Based on Modulation Technique
- 114 Single-phase five-level inverter with less number of power elements for grid connection
- 115 A Safety Enhanced, High Step-Up DC-DC Converter for AC Photovoltaic Module



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Application

- 116 New Approaches for Harmonics Reduction in Solar Inverters
- 117 Control of a Two-Port Super capacitor Converter Based on Differential Flatness Principle for Transportation Applications
- 118 Practical design and implementation procedure of an interleaved boost converter using SiC diodes for PV applications
- 119 An improved direct torque control for three-level inverter-fed induction motor sensor less drive
- 120 Reduced switch count multiple three-phase ac machine drive systems
- 121 Four switch buck boost converter for telecom dc to dc power supply applications
- 122 Modeling and simulation of BLDC motor in electric power steering
- 123 PV Power System Based MPPT Z-Source Inverter to Supply a Sensor less BLDC Motor
- 124 Modeling and simulation of BLDC motor using soft computing techniques
- 125 Control scheme for brushless dc motor drives in domestic applications using PIC controller
- 126 Sensor less based control of BLDC motor using 4 switch 3 phase converter
- 127 Performance analysis of a four switch 3-phase inverter fed IM drives
- 128 A New Adjustable-Speed Drives (ASD) System Based on High-Performance Z-Source Inverter
- 129 Speed control of three phase induction motor with advanced thermal production
- 130 Induction motor control using SCADA ,ZIGBEE and micro controller
- 131 Four quadrant operation of SRM using DSPIC30F



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- 132 Effects of common mode active filtering in induction motor drives for electric vehicles
- 133 A five-leg inverter for driving a traction motor and a compressor motor
- 134 Analysis of cm volt-second influence on cm inductor saturation and design for input EMI filters in three-phase dc-fed motor drive systems
- 135 Circuit analysis and modeling of a phase-shifted pulse width modulation full-bridge-inverter-fed-ozone generator with constant applied electrode voltage
- 136 Implementation of fm-ZCS-quasi resonant converter fed dc servo drive
- 137 A FPGA based generalized PWM modulator for three leg centre split and four leg VSI
- 138 Position sensor less control of switched reluctance generator for wind energy conversion
- 139 A Bidirectional DC-DC Converter for Fuel Cell Electric Vehicle Driving System
- 140 Parallel connected single phase multilevel inverter for high power applications
- 141 Vibration analysis of 3 phase induction motor with automatic failure notifications system notifications system
- 142 Voltage controllable power factor corrector based inductive coupling power transfer system
- 143 Fundamental frequency switching strategies of a seven level hybrid cascaded h-bridge multilevel inverter
- 144 Application of the z-source converter for aircraft power generation systems
- 145 High performance algorithm realization on FPGA for stepper motor controller
- 146 Closed loop control of PMBLDC motor using DSPIC30F4010



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- 147 Design and implementation of an accurately regulated multiple output ZVS DC-DC converter
- 148 Low cost utility interactive inverter for residential fuel cell generation
- 149 A novel zero-voltage-switching PWM full bridge converter
- 150 Soft-switched CCM boost converters with high voltage gain for high-power applications

PAPERS PUBLISHED IN OTHER JOURNALS

1. Digital Simulation of Multicarrier Pwm Strategy for Multi-Level Inverter
2. Standalone Hybrid Wind-Solar Power Generation System Applying Dump Power Control Without Dump Load
3. Control and Performance of a Cascaded Shunt Active Power Filter for Aircraft Electric Power System.
4. Design of Robust Controller for Single-Phase Double-Conversion UPS System
5. A Novel Loaded-Resonant Converter for the Application of DC-to-DC Energy Conversions.
6. Analysis and design of an LCL filter for the three-level grid-connected inverter
7. Improved Modulation Schemes for Indirect Z-source Matrix Converter with Sinusoidal Input and Output Waveforms.
8. Sensor less Predictive DTC for the PM Synchronous Machine
9. A Comparison of Symmetrical and Asymmetrical Three phase H-bridge



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Multilevel Inverter for DTC Induction Motor Drives

10. Simulation Single Phase Shunt Active Filter Based on p-q technique using MATLAB/Simulink Development Tools Environment
11. Implementation and Control of an Hybrid Multilevel Converter with Floating DC-links for Current Waveform Improvement
12. 11-level cascaded h-bridge grid-tied inverter interface with solar panel
13. Power Quality Improved PMBLDCM Drive for Adjustable Speed Application with Reduced Sensor Buck-Boost PFC Converter
14. A New 84-pulse VSC Configuration Using Multi-Level DC Voltage Reinjection for Especial Applications
15. A FACTS Device: Distributed Power-Flow Controller (DPFC)
16. Single-Phase to Three-Phase Drive System Using Two Parallel Single-Phase Rectifiers
17. A Battery with Ultra Capacitor hybrid energy storage system in EVs.
18. Characteristics of Independent Two Induction Motor Drives Fed by a Four-Leg Inverter
19. A Novel Three-Phase to Five-Phase Transformation Using a Special Transformer Connection
20. Z-source Inverter Based Permanent Magnet Brushless DC Motor Drive
22. Ripple Current Reduction of a Fuel Cell for a Single-Phase Isolated Converter Using a DC Active Filter With a Centre Tap
23. Super capacitors and Battery power management for Hybrid Vehicle Applications Using multi boost and full bridge Converters
24. Switching Losses and Harmonic Investigations in Multilevel Inverters



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25. Power Quality Improvement and Mitigation Case Study Using Distributed Power Flow Controller
26. Interleaved Buck Converter Having Low Switching Losses and Improved Step-Down Conversion Ratio
27. Improved transformer less inverter with common mode leakage current elimination for photovoltaic grid connected power system
28. A novel switching signals generation method for hybrid multilevel inverters
29. Switching Losses and Harmonic Investigations in Multilevel Inverters
30. Modified z-source single-phase inverter for single-phase pm synchronous motor drives
31. Design and simulation of three phase five level and Seven level inverter fed induction motor drive with Two cascaded h-bridge configuration
32. A Variable-Speed, Sensor less, Induction Motor Drive Using DC Link Measurement
33. Seven-Level Shunt Active Power Filter for High-Power Drive Systems
34. Study on a Novel Hybrid Active Power Filter Applied to a HV Grid
35. A-24 pulse AC-DC Converter employing a pulse doubling technique for Vector Controlled Induction Motor Drives
36. New converter for SRM drive with wide speed range operation
37. Torque Ripple Reduction in Direct Torque Control of Induction Machines by Use of all Voltage Vectors of Matrix Converters
38. Multilevel multiphase feed forward space-vector modulation technique
39. DC to AC cascaded H bridge multilevel boost inverter for electric and hybrid electric vehicles
40. Isolated bidirectional full-bridge dc-dc converter with a fly back



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Snubber

- 41. A novel switching signals generation method for hybrid multilevel
- 42. inverters
- 43. Super capacitors and Battery power management for Hybrid Vehicle
- 44. Applications Using multi boost and full bridge Converters
- 45. Modified z-source single-phase inverter for single-phase pm synchronous motor drives
- 46. Modelling and simulation of BLDC motor using soft computing techniques
- 47. Direct Torque and Indirect Flux Control of Brushless DC Motor
- 48. A Novel Three-Phase Three-Leg AC/AC Converter Using Nine IGBTs



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