

EEE PROJECTS LIST

SNO	PROJECT TITLE
LSEE001	A Transformer less Grid-Connected Photovoltaic System Based on the Coupled Inductor Single-Stage Boost Three-Phase Inverter
LSEE002	Design and Implementation of Sensor less Capacitor Voltage Balancing Control for Three-Level Boosting PFC
LSEE003	VSC-Based MVDC Railway Electrification System
LSEE004	Design of Unified Power Quality Conditioner(UPQC)to Improve the Power Quality Problems by Using P-Q Theory
LSEE005	Photovoltaic Burp Charge System on Energy-Saving Configuration by Smart Charge Management
LSEE006	Improved Active Power Filter Performance for Renewable Power Generation Systems
LSEE007	Partial-Resonant Buck-Boostand Fly back DC-DC Converters
LSEE008	A Novel Control Method for Transformer less H-Bridge Cascaded STATCOM with Star Configuration
LSEE009	An Adjustable-Speed PFC Bridgeless Buck-Boost Converter-Fed BLDC Motor Drive
LSEE010	Design of a Sliding-Mode-Controlled SEPIC for PVM PPT Applications
LSEE011	A High Step-Down Transformerless Single-Stage Single-Switch AC/DC Converter
LSEE012	Analysis and Design of a Push-Pull Quasi-Resonant Boost Power Factor Corrector
LSEE013	Analysis And Design Of A Single-Stage High-Power-Factor Dimmable Electronic Ballast For Electrodeless Fluorescent Lamp
LSEE014	Modeling and Control Design of the Interleaved Double Dual Boost Converter
LSEE015	Voltage Sag/Swell Compensation Using Z-source Inverter DVR based on Fuzzy Controller
LSEE016	Dual Transformer less Single-Stage Current Source Inverter With Energy Management Control Strategy
LSEE017	Electric Equivalent Model for Induction Electrode less Fluorescent Lamps
LSEE018	Generalized Multicell Switched-Inductor and Switched-Capacitor Z-Source Inverters
LSEE019	A Family of Three-Switch Three-State Single-Phase Z-Source Inverters
LSEE020	A High Step-Up Converter With a Voltage Multiplier Module for a Photovoltaic System
LSEE021	A STATCOM-control scheme for wind energy system to improve power quality
LSEE022	Cascaded Multicell Trans-Z-Source Inverters
LSEE023	Hybrid Seven-Level Cascaded Active Neutral-Point-Clamped-Based Multilevel Converter Under SHE-PWM
LSEE024	Cascaded Current-Voltage Control to Improve the Power Quality for a Grid-Connected Inverter With a Local Load
LSEE025	High-Efficiency Single-Input Multiple-Output DC-DC Converter
LSEE026	Pulsewidth Modulated Dual Half Controlled Converter
LSEE027	Simulation Comparisons and Implementation of Induction Generator Wind Power Systems
LSEE028	Mitigation of Lower Order Harmonics in a Grid-Connected Single-Phase PV Inverter
LSEE029	High Reliability and Efficiency Single-Phase Transformerless Inverter for Grid-Connected Photovoltaic Systems
LSEE030	Modular Multilevel Inverter with New Modulation Method and Its Application to Photovoltaic Grid-Connected Generator
LSEE031	Reconfigurable Solar Converter: A Single-Stage Power Conversion PV-Battery System
LSEE032	Grid Interconnection of Renewable Energy Sources at the Distribution Level With Power-Quality Improvement Features
LSEE033	LCL VSC Converter for High-Power Applications
LSEE034	Power-Management Strategies for a Grid-Connected PV-FC Hybrid System

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LSEE035	Multiple-Loop Digital Control Method for a 400-Hz Inverter System Based on Phase Feedback
LSEE036	Linear Stabilization of a DC Bus Supplying a Constant Power Load: A General Design Approach
LSEE037	Efficiency Oriented Design of ZVS Half Bridge Series Resonant Inverter With Variable Frequency Duty Cycle Control
LSEE038	Space Vector Modulation for Two-Level Unidirectional PWM Rectifiers
LSEE039	An Efficient AC-DC Step-up Converter for Low Voltage Energy Harvesting
LSEE040	A Bridgeless PFC Boost Rectifier With Optimized Magnetic Utilization
LSEE041	Analysis and Implementation of a Hybrid High Power Factor Three-Phase Unidirectional Rectifier
LSEE042	Generalized Topologies of Multiple Single-Phase Motor Drives
LSEE043	Design and Analysis of a Grid-Connected Photovoltaic Power System
LSEE044	A Modified SEPIC Converter for High Power Factor Rectifier and Universal Input Voltage Applications
LSEE045	Soft Switched CCM Boost Converters With High Voltage Gain for High Power Applications
LSEE046	Design Oriented Analysis and Performance Evaluation of Buck PFC Front End
LSEE047	Digital Combination of Buck and Boost Converters to Control a Positive Buck-Boost Converter and Improve the Output Transients
LSEE048	EMI Noise Prediction for Electronic Ballasts
LSEE049	High-Density EMI Filter Design for DC-Fed motor drives
LSEE050	Modelling and Control of a Three-Phase Four-Switch PWM Voltage-Source Rectifier in d-q Synchronous Frame
LSEE051	Improved Asymmetric Space Vector Modulation for Voltage Source Converters with Low Carrier Ratio
LSEE052	A Single-Phase High Power Factor Rectifier, Based on a Two-Quadrant Shunt Active Filter
LSEE053	Single-Phase Z-Source Inverter
LSEE054	Diode-Clamped Three Level Inverter Based Battery/ Super capacitor Direct Integration Scheme for Renewable Energy Systems
LSEE055	Efficient Sequential Switching Hybrid Modulation Techniques for Cascaded Multilevel Inverters
LSEE056	High-Efficiency Regulation Method for a Zero-Current and Zero-Voltage Current-Fed Push-Pull Converter
LSEE057	Performance of a High-Efficiency Switched- Capacitor-Based Resonant Converter With Phase-Shift Control
LSEE058	A Modified Single-Phase Quasi-Z-Source AC-AC Converter
LSEE059	UPQC-S: A Novel Concept of Simultaneous Voltage Sag/Swell and Load Reactive Power Compensations Utilizing Series Inverter of UPQC
LSEE060	Cascaded Current-Voltage Control to Improve the Power Quality for a Grid-Connected Inverter With a Local Load
LSEE061	A Safety Enhanced, High Step-Up DC-DC Converter for AC Photovoltaic Module Application
LSEE062	A ZVS Interleaved Boost AC/DC Converter Used in Plug-in Electric Vehicles
LSEE063	Analysis and Design of a Zero-Voltage-Switching and Zero-Current-Switching Interleaved Boost Converter
LSEE064	Extended-Phase-Shift Control of Isolated Bidirectional DC-DC Converter for Power Distribution in Microgrid
LSEE065	Interleaved Buck Converter Having Low Switching Losses and Improved Step-Down Conversion Ratio
LSEE066	Solar Photovoltaic Power Conversion Using Modular Multilevel Converter

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LSEE067	Supercapacitors and Battery power management for Hybrid Vehicle Applications Using multi boost and full bridge Converters
LSEE068	High-Frequency Resonant SEPIC Converter With Wide Input and Output Voltage Ranges
LSEE069	Improved power quality based high brightness LED lamp driver
LSEE070	The Steady State Analysis of Z-Source Inverter based Solar Power Generation System
LSEE071	Z- Source Inverter Based Permanent Magnet Brushless DC Motor Drive
LSEE072	An <i>LLCL</i> Power Filter for Single-Phase Grid-Tied Inverter
LSEE073	Grid Interactive PV System with Harmonic and Reactive Power Compensation Features using a Novel Fuzzy Logic Based MPPT
LSEE074	Power Quality Improvement of Grid Interconnected 3-phase 4-wire Distribution System using Fuzzy logic control
LSEE075	Compensation Of Sags And Swells Voltage Using Dynamic Voltage Restorer (Dvr) During Single Line To Ground And Three-Phase Faults
LSEE076	A Novel DC Capacitor Voltage Balance Control Method for Cascade Multilevel STATCOM
LSEE077	Three-Phase Dual-Buck Inverter With Unified Pulsewidth Modulation
LSEE078	Novel Application of a PV Solar Plant as STATCOM During Night and Day in a Distribution Utility Network
LSEE079	Isolated Wind-Hydro Hybrid System Using Cage Generators and Battery Storage
LSEE080	Flexible D-STATCOM Performance as a Flexible Distributed Generation in Mitigating Faults
LSEE081	Matrix Converter-Based Unified Power-Flow Controllers: Advanced Direct Power Control Method
LSEE082	Simplified Power Converter for Integrated Traction Energy Storage
LSEE083	Power System Stability Enhancement Using Static Synchronous Series Compensator (SSSC)
LSEE084	Active Power Factor Correction (PFC) Circuit With Resistor-Free Zero-Current Detection
LSEE085	A Dynamic Voltage Restorer Equipped With a High-Frequency Isolated DC-DC Converter
LSEE086	Implementation and Control of an Hybrid Multilevel Converter with Floating DC-links for Current Waveform Improvement
LSEE087	Induction Motor Drive Using Seven Level Multilevel Inverter for Energy Saving in Variable Torque Load Application
LSEE088	Load Compensation for Diesel Generator-Based Isolated Generation System Employing DSTATCOM
LSEE089	Fault Detection and Mitigation in Multilevel Converter STATCOMs
LSEE090	A direct power control for Hybrid HVDC transmission systems
LSEE091	Damping Power System Oscillations Using a Hybrid Series Capacitive Compensation Scheme
LSEE092	High Performance Hybrid Cascaded Inverter for Renewable Energy System
LSEE093	Loading Balance of Distribution Feeders With Loop Power Controllers Considering Photovoltaic Generation
LSEE094	Performance Comparison of VSC-Based Shunt and Series Compensators Used for Load Voltage Control in Distribution Systems
LSEE095	Simulation Analysis of DVR Performance for Voltage Sag Mitigation
LSEE096	Single-Phase Seven-Level Grid-Connected Inverter for Photovoltaic System
LSEE097	A Novel Three-Phase to Five-Phase Transformation Using a Special Transformer Connection
LSEE098	Ripple Current Reduction of a Fuel Cell for a Single-Phase Isolated Converter Using a DC Active Filter With a Center Tap
LSEE099	Isolated Bidirectional Full-Bridge DC-DC Converter With a Flyback Snubber
LSEE100	Power-Management Strategies for a Grid-Connected PV-FC Hybrid System
LSEE101	A FACTS Device Distributed Power-Flow Controller (DPFC)

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LSEE102	Zero-Voltage- and Zero-Current-Switching Full-Bridge Converter With Secondary Resonance
LSEE103	Direct Torque Control for Doubly Fed Induction Machine-Based Wind Turbines Under Voltage Dips and Without Crowbar Protection
LSEE104	A STATCOM-Control Scheme for Grid Connected Wind Energy System for Power Quality Improvement
LSEE105	Multilevel Multiphase Feedforward Space-Vector Modulation Technique
LSEE106	Power Flow Control with Distributed Flexible AC Transmission System (D-FACTS) Devices
LSEE107	Single-Phase to Three-Phase Drive System Using Two Parallel Single-Phase Rectifiers
LSEE108	An Interleaved Totem-Pole Boost Bridgeless Rectifier With Reduced Reverse-Recovery Problems For Power Factor Correction
LSEE109	Design of a Mode Decoupling STATCOM for Voltage Control of Wind-Driven Induction Generator Systems
LSEE110	Design of a Hybrid PID Plus Fuzzy Controller for Speed Control of Induction Motors
LSEE111	Design of a 28 V-to-300 V/12 kW Multicell Interleaved Flyback Converter Using Intercell Transformers
LSEE112	Modeling and Simulation Research on Closed-loop Servo System
LSEE113	A Novel Online Fuzzy Control Method of Static VAR Compensation for an effective reactive Power Control of Transmission Lines
LSEE114	Wind Farm to Weak-Grid Connection using UPQC Custom Power Device
LSEE115	Enhancement of Microturbine-Generator Output Voltage Quality through Application of Matrix Converter Interface
LSEE116	A Voltage Controlled Adjustable Speed PMSM Drive using A Single-Stage PFC Half-Bridge Converter
LSEE117	A New Combined Model for Simulation of Mutual Effects between LFC and AVR Loops
LSEE118	Bidirectional Switch Commutation for a Matrix Converter Supplying a Series Resonant Load
LSEE119	A Fast-Acting DC-Link Voltage Controller for Three-Phase DSTATCOM to Compensate AC and DC Loads
LSEE120	Multi converter Unified Power-Quality Conditioning System: MC-UPQC
LSEE121	Dynamic Modeling and Simulation of Hybrid Power Systems Based on Renewable Energy
LSEE122	Voltage Flicker Compensation using STATCOM
LSEE123	A Versatile Control Scheme for a Dynamic Voltage Restorer for Power-Quality Improvement
LSEE124	Soft Computing Techniques for the Control of an Active Power Filter
LSEE125	Sensorless Current Control of Three-Phase Inverter-Based Distributed Generation
LSEE126	A Modular Fuel Cell, Modular DC-DC Converter Concept for High Performance and Enhanced Reliability
LSEE127	A Novel Design Approach of DC Voltage Balancing Controller for Cascaded H-Bridge Converter-Based STATCOM
LSEE128	UPQC Signal Detection Algorithm Studies Based on PSO-FUZZY
LSEE129	Seven-Level Shunt Active Power Filter for High-Power Drive Systems
LSEE130	A Single-Phase Voltage-Controlled Grid-Connected Photovoltaic System With Power Quality Conditioner Functionality
LSEE131	Switching Losses and Harmonic Investigations in Multilevel Inverters
LSEE132	Voltage Stability Improvement using Static VAR Compensator in Power Systems
LSEE133	Optimal Placement of Shunt Connected Facts Device in a Series Compensated Long Transmission Line

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LSEE134	Novel Half-Bridge Inductive DC-DC Isolated Converters for Fuel Cell Applications
LSEE135	Bidirectional Switch Commutation for a Matrix Converter Supplying a Series Resonant Load
LSEE136	A self-coordinating adaptive control scheme for HVDC transmission systems
LSEE137	Position Sensorless Control for Four-Switch Three-Phase Brushless DC Motor Drives
LSEE138	Single-Phase Uninterruptible Power Supply Based on Z-Source Inverter
LSEE139	Three-Phase Three Level, Soft Switched, Phase Shifted PWM DC-DC Converter for High Power Applications
LSEE140	Two-Level VSC Based Predictive Direct Torque Control of the Doubly Fed Induction Machine With Reduced Torque and Flux Ripples at Low Constant Switching Frequency
LSEE141	Distributed FACTS—A New Concept for Realizing Grid Power Flow Control
LSEE142	Multi-Input Inverter for Grid-Connected Hybrid PV/Wind Power System
LSEE143	Controller Design for an Induction Generator Driven by a Variable-Speed Wind Turbine
LSEE144	Unified Constant-Frequency Integration Control of Active Power Filters—Steady-State and Dynamics
LSEE145	Multilevel Converters for Large Electric Drives
LSEE146	Nine level Cascaded H-bridge Multilevel DC-Link Inverter

