



Shop No 50,1St Floor
Thanjavur Bypass Road
Trichy
TamilNadu

www.tedpro.org

IEEE - EEE Projects

	Z-SOURCE CONVERTER:
TEDEE01	1. A Single-phase PV Quasi-Z-source Inverter with Reduced Capacitance using Modified Modulation and Double-Frequency Ripple Suppression Control
TEDEE02	2. A Novel Quasi-Z-Source Inverter Topology With Special Coupled Inductors For Input Current Ripples Cancellation.
	SOLAR MPPT SYSTEM:
TEDEE03	1. Energy Storage System from DC Bus with Port for Solar Module
TEDEE04	2. A Novel Control Strategy for Stand-alone Solar PV Systems with Enhanced Battery Life
	BLDC MOTOR:
TEDEE05	1. A Torque Ripple Compensation Technique for a Low Cost Brushless DCMotor Drive
TEDEE06	2. Position Sensorless Control without Phase Shifter for High-speed BLDCMotors with Low Inductance and Nonideal Back EMF

	INDUCTION MOTOR:
TEDEE07	1. Advanced Integrated Modeling and Analysis for Adjustable Speed Drives of Induction Motors Operating With Minimum Losses
TEDEE08	2. A New Formulation of Reactive Power Based Model Reference Adaptive System for Sensorless Induction Motor Drive
TEDEE09	3. Simple Flux Regulation for Improving State Estimation at Very Low and Zero Speed of a Speed Sensorless Direct Torque Control of Induction Motor Drive
	POWER QUALITY AND HARMONICS FILTERINGS:
TEDEE10	1. A PLL-Less Scheme for Single-Phase Grid Interfaced Load Compensating Solar PV Generation System
TEDEE11	2. A Filtering Scheme to Reduce the Penetration of Harmonics Into Transmission Systems
TEDEE12	3. Power Factor Corrected Zeta Converter Based Improved Power Quality Switched Mode Power Supply
TEDEE13	4. A Synchronization Method for Single-Phase Grid-Tied Inverters
TEDEE14	5. Variable Forgetting Factor Recursive Least Square Control Algorithm for DSTATCOM
TEDEE15	6. A New Virtual Harmonic Impedance Scheme for Harmonic Power Sharing in an Islanded Microgrid
	PFC CONVERTERS:
TEDEE16	1. Efficient Single-Switch Boost-Dual-Input Flyback PFC Converter with Reduced Switching Loss
TEDEE17	2. Implementation of Bridgeless Cuk Power Factor Corrector with Positive Output

	Voltage
TEDEE18	3. Design of AC-DC PFC High-Order Converters with Regulated Output Current for Low Power Applications
TEDEE19	4. A High Voltage SiC-based Boost PFC for LED Applications
TEDEE20	5. Power Factor Corrected Zeta Converter Based Improved Power Quality Switched Mode Power Supply
TEDEE21	6. Line Current Distortion Compensation for DCM/CRM Boost PFC Converters
TEDEE22	7. PIC-Based Interleaved Buck Power Factor Corrector With Adaptive Slope Compensation
TEDEE23	8. A Novel Control Scheme of Quasi-Resonant Valley-Switching for High-Power-Factor AC-to-DC LED Drivers
TEDEE24	9. A Bridgeless BHB ZVS-PWM AC-AC Converter for High-Frequency Induction Heating Applications
	MULTI LEVEL INVERTER:
TEDEE25	1. A Fault Tolerant Single Phase Five-level Inverter for Grid Independent PV systems
TEDEE26	2. An Energy Stored Quasi-Z Source Cascade Multilevel Inverter based Photovoltaic Power Generation System
TEDEE27	3. A new switching scheme for a new multi level inverter topology for grid connected PV systems
TEDEE28	4. Implementation of SVM to improve the performance of a nine level inverter with reduced number of switches
TEDEE29	5. Optimal Low Switching Frequency Pulsewidth Modulation of Nine-Level Cascade Inverter
TEDEE30	6. An Innovative Scheme of Symmetric Multilevel Voltage Source Inverter with Lower Number of Circuit Devices
	RESONANT CONVERTERS:

TEDEE31	1. Resonant Converter With Resonant-Voltage-Multiplier Rectifier and Constant Frequency Phase-Shift Control For Isolated Buck-Boost Power Conversion
TEDEE32	2. Analysis and Design of Single-Switch Forward-Flyback Two-Channel LED Driver with Resonant-Blocking Capacitor
TEDEE33	3. Efficiency Optimization of LLC Resonant Converters Operating in Wide Input-and/or Output-Voltage Range by On-the-Fly Topology-Morphing
TEDEE34	4. Flying-Capacitor Based Hybrid LLC Converters with Input Voltage Auto-Balance Ability for High Voltage Applications
TEDEE35	5. Proportional-Resonant Current Controllers Design Based on Desired Transient Performance
TEDEE36	6. DCM-based Zero-Voltage Switching Control of a Bidirectional DC-DC Converter With Variable Switching Frequency
TEDEE37	7. Operating Conditions Monitoring for High Power Density and Cost-Effective Resonant Power Converters
TEDEE38	8. Analysis and Parameter Optimization of Start-up Process for LLC Resonant Converter
TEDEE39	9. A Zero-Voltage-Transition Bidirectional DC/DC Converter
TEDEE40	10. Study on the Single-stage Forward-flyback PFC Converter with QR Control
	WIND ENERGY CONVERSION SYSTEM:
TEDEE41	1. Split Converter-Fed SRM Drive for Flexible Charging in EV/HEV Applications
TEDEE42	2. Contribution of VSC-HVDC to Frequency Regulation of Power Systems With Offshore Wind Generation
TEDEE43	3. A Discrete-Time Direct Torque Control for Direct-Drive PMSG-Based Wind Energy Conversion Systems
TEDEE44	4. A Single Sensor Based MPPT Controller for Wind-Driven Induction Generators Supplying DC Microgrid

TEDEE45	5. Wound Rotor Machine With Single-Phase Stator and Three-Phase Rotor Windings Controlled by Isolated Three-Phase Inverter
TEDEE46	6. Using Improved Power Electronics Modeling and Turbine Control to Improve Wind Turbine Reliability
TEDEE47	7. On the Design and Capacity of Grounding Systems for Grid-Connected DGUs
TEDEE48	8. Maximum Power Point Tracking Strategy for Large-Scale Wind Generation Systems Considering Wind Turbine Dynamics
TEDEE49	9. Reinforcement Learning-Based Intelligent Maximum Power Point Tracking Control for Wind Energy Conversion Systems
	FACTS CONTROL:
TEDEE50	1. Individual Phase Current Control Based on Optimal Zero Sequence Current Separation for a Star-Connected Cascade STATCOM under Unbalanced Conditions
TEDEE51	2. Reduced Capacitance Thin-Film H-Bridge Multilevel STATCOM Control Utilizing an Analytic Filtering Scheme
TEDEE52	3. Modulation and Control of Transformer-less UPFC
TEDEE53	4. An Integrated Dynamic Voltage Restorer-Ultracapacitor Design for Improving Power Quality of the Distribution Grid
TEDEE54	5. Dynamic Voltage Restorer Based on Three-Phases Inverters Cascaded Through an Open-End Winding Transformer
TEDEE55	6. Shunt Active Power Filter With Open-End Winding Transformer and Series-Connected Converters
	HYBRID CONVERTERS:
TEDEE56	1. Performance Analysis of Bidirectional DC–DC Converters for Electric Vehicles
TEDEE57	2. Robust Global Stabilization of the DC-DC Boost Converter via Hybrid Control
TEDEE58	3. Design, Operation and Control of S3 Inverter for Single-Phase Micro-Grid Applications
TEDEE59	4. Analysis of CLL Resonant Converter with Semi Bridgeless Active Rectifier

	and Hybrid Control
TEDEE60	5. A New Hybrid Boosting Converter (HBC) for Renewable Energy Applications
TEDEE61	6. High Gain Zero Voltage Switching Bidirectional converter with reduced number of switches
TEDEE62	7. The Hybrid-Cascaded DC–DC Converters Suitable for HVdc Applications
TEDEE63	8. Hybrid PWM-Resonant Converter for Electric Vehicle On-Board Battery Chargers