



IEEE M.Tech, B.E, B.Tech Tittles 2020-2021 ELECTRICAL & ELECTRONICS PROJECTS

| SI No | TITLE OF THE PAPER |
|-------|---|
| 1 | An Adjustable Speed Pf Corrected BI Dual Buck-Boost Converter Fed Brushless Dc Motor Drive. |
| 2 | A Boost Converter With Capacitor Multiplier and Coupled Inductor for AC Module Applications. |
| 3 | A Transformerless Active Voltage Quality Regulator With the Parasitic Boost Circuit. |
| 4 | Control of Improved Full-Bridge Three-Level DC/DC Converter for Wind Turbines in a DC Grid. |
| 5 | High Reliability and Efficiency Single-Phase Transformerless Inverter for Grid-Connected Photovoltaic Systems. |
| 6 | Minimization of Power Loss in SRIM with Rotor Chopper Control. |
| 7 | Non isolated High Step-up Stacked DC-DC Converter Based on Boost Converter Elements for High Power Application. |
| 8 | Power-Electronics-Based Solutions for Plug-in Hybrid Electric Vehicle Energy Storage and Management Systems. |
| 9 | A Solar Power Generation System with a Seven-Level Inverter. |
| 10 | Transformerless variable frequency drive. |
| 11 | Comparison on Performance between Synchronous Single-ended Primary-inductor Converter (SEPIC) and Synchronous ZETA Converter. |
| 12 | Desgin of a synchronous sepic DC-DC converter for a standalone photo voltaic system. |
| 13 | Analog Controller for Home Application of Photovoltaic System using Interleaved DC-DC Converter and Single-phase Inverter. |
| 14 | Smart DC Micro-grid for Efficient Utilization of Distributed Renewable Energy. |
| 15 | Power-Electronics-Based Solutions for Plug-in Hybrid Electric Vehicle Energy Storage and Management Systems. |
| 16 | Automated Dual Electrical Vehicle Charger. |
| 17 | Sensorless Permanent Magnet Synchronous Motor Drive. |
| 18 | Advanced traffic density controller with solar power with pollution extractor |
| 19 | Industrial automation & controlling system with GSM technologies |
| 20 | Solar powered agriculture pesticide sprayer system |
| 21 | Hybrid power generation using rain water harvesting with solar & wind turbine auto changeover |
| 22 | Automatic solar panel dust cleaning system for increasing efficiency of solar panel |
| 23 | Intelligent machines and drives monitoring for different kinds of fault using real time Hall Effect based current sensing techniques. |



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| 24 | Data acquisition system for wind turbines in wind mill plants with real time GSM interface for efficiency improvements of wind turbine |
| 25 | Hybrid power generation using foot step and solar technique in public places with real time usage of low power operated devices. |
| 26 | Dual hybrid power generation with solar tracking and peak efficiency generation with power saving concept. |
| 27 | Energy meter tampering and power illegal tapping theft detection with Hall Effect sensor with GSM messaging to distribution station with cut off system for effective energy theft management |
| 28 | Distribution transformer over heating detection with air force cooling using solar energy. |
| 29 | Interactive notice intimation system for students in college using dot matrix alphanumeric LED display (notice board) with real time interaction using GSM technology and voice intimation system. |
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