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मालवीय राष्ट्रीय प्रौद्योगिकी संस्थान जयपुर (राष्ट्रीय महत्व का संस्थान)
Malaviya National Institute of Technology Jaipur (*An Institute of National Importance*)



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- [!\[\]\(f816ec24a4f444430eb3ace8485a2c05_img.jpg\) Metallurgical and Materials Engineering](#)
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Centres

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Faculty

Head of Department



Prof. Nikhil Gupta

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Research Interests : Demand Response Management in Power Systems, Electric Vehicles Integration in Power System.

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**Mr. Ashok Kumar Agarwal****✉ Associate Professor****🎓 M.Tech.,B.E.****Research Interests :** Electrical Machines, Energy Systems, Computer Applications, Power System, Network Analysis & Synthesis, Analysis & Design of Digital Logic Circuits.**✉ akagarwal.ee@mnit.ac.in ✉ 01412713359****[View Detailed Profile](#)****Dr. Dipti Saxena****✉ Associate Professor****🎓 Ph.D.(Electrical Engg., Power System),M. Tech.(Electrical Engg, Control System),B.Tech.(Electrical Engg.)****Research Interests :** Power Quality, Distributed Generation, Electrical Vehicles, Signal Processing Applications to Power System, Energy Management in Smart grid, Fault Location in Smart Grid, Power Electronics Application in Power Systems, Microgrids.**✉ dsaxena.ee@mnit.ac.in****[View Detailed Profile](#)****[Google Scholar Profile](#)****Dr. Hemant Kumar Meena****✉ Associate Professor****🎓 Ph.D.(Signal Processing),M. Tech.(Information and Communication Technology),B .Tech.(Electrical-IIT Delhi)**

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Research Interests : Control Systems, Applications of control to power systems and power electronics, Optimization, Artificial intelligence, Power system optimization, Image processing, Soft computing techniques, Neural networks, fuzzy logic, deep learning.

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Assistant Professor

**Dr. Akhilesh Mathur****Assistant Professor****Ph.D.(Electrical Engg.),M.Tech.(Power System, Electrical Engg.),B.E.(Electrical Engineering)****Research Interests :** Data Driven modeling of active distribution network, Data Driven modelling of Energy assets, Steady state analysis: Power flow solution of active distribution system, Smart-grid, Microgrid, Short-circuit analysis: Fault calculations in Modern Distribution Systems, Smart-grid, Microgrid, State Estimation of Microgrid/Smart-Grid/Modern Distribution Grid.**E-mail:** akhilesh.ee@mnit.ac.in**[View Detailed Profile](#)****[Google Scholar Profile](#)****Dr. Kapil Shukla****Assistant Professor****Ph.D.(Electrical Engineering),M.Tech.(Power Systems),B.Tech.(Electrical Engineering)****Research Interests :** Power Electronics, Power Quality, Switching Techniques for Parallel Connected Converters.**E-mail:** kapil.ee@mnit.ac.in**[View Detailed Profile](#)****[Google Scholar Profile](#)****Dr. Man Mohan Garg****Assistant Professor****Ph.D.(Electrical Engineering (IIT Roorkee)),M. Tech.(Electrical Engineering (IIT Roorkee)),B.E.**

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Research Interests : Power Electronic Converter: Design, Modeling and Control Issues, Grid Integration of Renewable Energy Sources, Electrical Vehicles and its Integration to PV and Grid, Cyber Physical Energy System, High-Density High-Efficiency Microinverter, Control of DC and AC Microgrid Systems, Sliding Mode Control, Model-order Reduction of Higher-order Systems.

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Adjunct Faculty**Prof. Hari Om Gupta**

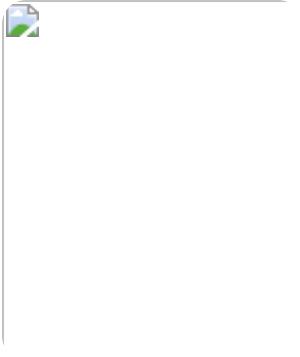
 Adjunct Faculty

 Ph.D.(Performance Optimization of Electronic Circuits),M.E.(Electrical Engineering (System Engineering & Operations Research)),B.E.(Electrical Engineering)

Research Interests : Load flow and short-circuit analysis of Modern Distribution Systems, Protection and operation of power transformer, Power quality improvement, Transformer Design, Electrical Power system Analysis And Control.

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**Mr. Sushil Kumar Soonee****Adjunct Faculty****B .Tech.(Power system),Research in Power System Operation(Power System Operation)****Research Interests :** Power systems , Power Market Operations, Regulatory Affairs, Grid Integration of Renewables, Power System Logistics, Power System Operations, Power Pool Governance and Regulatory Affairs.**E-mail:** sksoonee@gmail.com**View Detailed Profile****Google Scholar Profile****ResearchGate Profile****Staff****Mr. Dhara Singh Naroliya****Technical Assistant (SG-I)****Diploma in Electrical Engineering****Expertise :Electrical Machines and Basic Electrical Engineering****E-mail:** dsnaroliya.ee@mnit.ac.in**Mr. Brijesh Baswal****Senior Technician****B.Tech in Electrical Engineering**

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- Supervisors :**Dr. Kapil Shukla
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**Ms. Deepti Meena**

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- Research Interests :**Renewable Energy
- Supervisors :**Dr. Mukesh Kumar Shah
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Supervisors :Dr. Kusum Verma

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Ms. Suman Rekha Dip

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Research Interests :Signal Processing

Supervisors :Dr. Hemant Kumar Meena

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Research Interests :Power System

Supervisors :Dr. Akhilesh Mathur

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Research Interests :Smart Grid and Electrical Vehicle

Supervisors :Dr. Nikhil Gupta

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Mr. Rahul Tailor

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Research Interests :Renewable Energy

Supervisors :Dr. Mukesh Kumar Shah

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Mr. Vikas Ranveer Singh Mahala

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Research Interests :Energy Management in Microgrid

Supervisors :Dr. Dipti Saxena & Prof. Rajesh Kumar

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**Ms. Nidhi****✉ 2022REE9547****⚙ Research Interests :**Field Failure Analysis of Smart Meters**人群 Supervisors :**Prof. Rajesh Kumar**✉ 2022ree9547@mnit.ac.in****Mr. Tonu Pareta****✉ 2022REE9050****⚙ Research Interests :**EV Charging: Topologies and Control Technique**人群 Supervisors :**Dr. Kapil Shukla & Dr. Arun Kumar Verma**✉ 2022ree9050@mnit.ac.in****Ms. Akanksha V. Waghmare****✉ 2022REE9049****⚙ Research Interests :**Control system, Optimization, Machine Learning, Application of control in power systems**人群 Supervisors :**Dr. Vinay Pratap Singh**✉ 2022ree9049@mnit.ac.in**



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Research Interests :Power electronics converters, switching techniques for parallel connected converters.

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Supervisors :Dr. Nitin Gupta

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**Ms. Mitushi**

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- 👥 **Supervisors :**Prof. K.R Niazi
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**Mr. Anupam Agarwal**

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- ⚙️ **Research Interests :**Cyber Physical Energy System
- 👥 **Supervisors :**Dr. Man Mohan Garg
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**Mr. Ankush Koli**

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- 👥 **Supervisors :**Prof. H. P. Tiwari & Dr. Arun Kumar Verma
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Research Interests :Power System Operation and Planning

Supervisors :Dr. Rohit Bhakar

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Supervisors :Prof. Rajive Tiwari

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- 👥 Supervisors :**Prof. Rajesh Kumar
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- ⚙ Research Interests :**Microgrid, Renewable Energy, Electrical Vehicle Integration in Grid
- 👥 Supervisors :**Dr. Dipti Saxena
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Mr. Surapu Prasada Rao

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- 👥 Supervisors :**Dr. Sandeep N
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Research Interests :Power System and Energy System

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2021REE9524

Research Interests :Power System

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Research Interests :Smart Grid and Micro Grid

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Research Interests :power electronics, grid connected renewable energy systems

Supervisors :Dr. Nitin Gupta & Dr. Man Mohan Garg

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Research Interests :Application of AI in Power System, Integration of Renewable Energy

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⚙ Research Interests :POWER SYSTEM & CONTROL SYSTEM

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⚙ Research Interests :Power System Operations, Energy Market

人群 Supervisors :Dr. Satish Sharma

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Mr. Dheeraj Verma

✉ 2021REE9058

⚙ Research Interests :Cyber security of Smart Grid, Design of Attacklets, and Vulnerability Analysis & Mitigation.

人群 Supervisors :Prof. K. R. Niazi & Dr. Praveen Kumar Agrawal

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**Mr. Ashish Prajesh****✉** 2021REE905**⚙️ Research Interests :**Application of Artificial intelligence in Power System**👥 Supervisors :**Dr. Prerna Jain**✉** 2021REE9057@mnit.ac.in**Mr. Vijay Bhartiya****✉** 2021REE9003**⚙️ Research Interests :**Signal Applications in Power Systems, Microgrid & Smart Grid**👥 Supervisors :**Dr. Hemant Kumar Meena**✉** 2021REE9003@MNIT.AC.IN**Mr. Hitesh Kumar Verma****✉** 2020REE9548**⚙️ Research Interests :**Electric Vehicle**👥 Supervisors :**Dr. Nikhil Gupta**✉** 2020REE9548@mnit.ac.in

**Mr. Krishan Chopra****✉ 2020REE9547****⚙ Research Interests :**Renewable energy, Electric Vehicle, Microgrid**👥 Supervisors :**Dr. Mukesh Kumar Shah & Prof. K.R. Niazi**✉ 2020ree9547@mnit.ac.in****Mr. Shubham Patwari****✉ 2020REE9545****⚙ Research Interests :**Electric vehicle scheduling**👥 Supervisors :**Dr. Satish Sharma**✉ 2020ree9545@mnit.ac.in****Mr. G K Naveen Kumar****✉ 2020REE9544****⚙ Research Interests :**PFC AC/DC Converters, On-board Chargers, Multi-Level Inverters, MMC**👥 Supervisors :**Dr Arun Kumar Verma**✉ 2020ree9544@mnit.ac.in**



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Research Interests :Power System Flexibility

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⚙ Research Interests :Demand Response and Electric Vehicle
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Research Interests :Grid interactive electric vehicle, Power electronics converters, Motors

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👥 Supervisors :Dr. Nitin Gupta & Dr. Man Mohan Garg

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Research Interests :Renewable Energy, Power flow Management in Smart grid, Fault Location in Smart Grid

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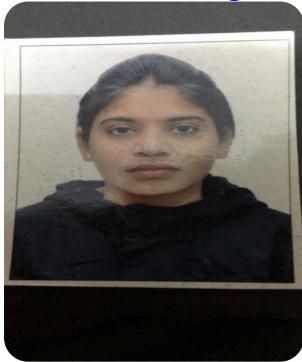
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2019REE9516

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- 👥 Supervisors :Dr. Praveen Kr. Agrawal & Dr. Nikhil Gupta
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Ms. Archana

✉ 2018REE9141

⚙ Research Interests :Distribution Network Expansion Planning

人群 Supervisors :Dr. Prerna Jain & Prof. VikasGupta

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⚙ Research Interests :Resiliency of Power System,Power Electronics, Power Conversion Techniques for Wind & PV, Power Quality, Renewable Integration in Power Systems

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Research Interests :Distributed Energy Resources Integration, Volt-VAr control

Supervisors :Prof. Manoj Fozdar & Prof. Rajive Tiwari

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Supervisors :Dr. Neeli Satyanarayana

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2018REE908

Research Interests :Impact of fast charging stations on distribution system: some investigation.

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Research Interests :Modeling and Strategies of Demand Response in Contemporary Distribution Systems

Supervisors :Dr. Nikhil Gupta

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Thesis Title :Transformer-Less Inverter Topologies With Voltage Boosting And Suppressed Leakage Current For PV Applications

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- ⚙ Thesis Title :**Lower Limb Activity Recognition Based on sEMG Signal using Machine Learning Techniques
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- ⚙ Thesis Title :**ADAPTIVE RECEDING HORIZON CONTROL OF GREENHOUSE ENVIRONMENT
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-  **Thesis Title :**Investigations on Certain Controllers and Energy Management System for DC Microgrid
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-  **Thesis Title :**Design, Implementation and Control of BLDC Motor Drive
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-  **Thesis Title :**Optimal Integration of Smart Grid Enabling Technologies in Modern Distribution Network
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- ⚙ Thesis Title :Primary Frequency Response Adequacy in Low-Carbon Power Systems**
- 💻 Publications :Conference (National- 02, International- 04)**
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- 👥 Supervisors :Dr. Arun Kumar Verma**
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Dr. Sharma Suman Dharampal

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 **Thesis Title :**Optimal Scheduling of Electric Vehicle Aggregator in Electricity Markets

 **Publications :**Conference (International- 02)

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-  **Publications :**Conference (International- 03)
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-  **2015REE9542**
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**Dr. Sachin Sharma**

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**Dr. Ajay Kumar**

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-  **Year of Award :**2020
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**Dr. Bhanu Pratap Soni****✉ 2014REE9503****⚙ Thesis Title :EVALUATION OF POWER SYSTEM STABILITY IN MULTIMACHINE POWER SYSTEM****👥 Supervisors :Prof. Vikas Gupta****📅 Year of Award :2020****✉ 2014ree9503@mnit.ac.in****Dr. Ranjeet Kumar****✉ 2015REE9001****⚙ Thesis Title :Fault Location In Active Distribution systems****👥 Supervisors :Dr. Dipti Saxena****📅 Year of Award :2020****✉ 2015ree9001@mnit.ac.in****Dr. Jay Prakash Keshri****✉ 2014REE9538****⚙ Thesis Title :Investigation On Detection, Classification, And Location Of Faults In Transmission Lines For Improved Transfer Capability****👥 Supervisors :Prof. Harpal Tiwari****📅 Year of Award :2020****✉ 2014ree9538@mnit.ac.in**

**Dr. Pranda Prasanta Gupta****✉ 2014REE9537****⚙ Thesis Title :**Stochastic Security Constrained Unit Commitment Considering Renewable Energy and Storage Integration**👥 Supervisors :**Dr. Prerna Jain**📅 Year of Award :**2020**✉ 2014ree9537@mnit.ac.in****Dr. Sonam Parashar****✉ 2014REE9533****⚙ Thesis Title :**Some Investigations On Optimal Operation Of Microgrids**👥 Supervisors :**Dr. Anil Swarnkar & Prof. K.R. Niazi**📅 Year of Award :**2019**✉ 2014ree9533@mnit.ac.in****Dr. Venu Sangwan****✉ 2014REE9041****⚙ Thesis Title :**Battery Management System for Electric Vehicle**📄 Publications :**Journal (01), Conference (International- 08)**👥 Supervisors :**Prof. Rajesh Kumar & Dr. Akshay Kumar Rathore (external)**📅 Year of Award :**2019**✉ 2014ree9041@mnit.ac.in**

**Dr. Ajeet Kumar Singh**

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Thesis Title :Some Studies on PMUs for Event Detection and Stability in Power Systems

Supervisors :Dr. Manoj Fozdar

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**Dr. Vijayakumar Gali**

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Thesis Title :Design Development Of Inverter Topologies And Control Techniques To Enhance The Operation Of Shunt Apf For Power Quality Improvement

Supervisors :Dr. Nitin Gupta & Prof. R. A. Gupta

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Thesis Title :MONITORING AND CONTROL OF LOW FREQUENCY OSCILLATIONS IN POWER SYSTEM

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**Dr. Prerak Bhardwaj****✉ 2014REE9528****⚙ Thesis Title :**Design and Development of Power Electronic Controller for Doubly Fed Induction Generators Based Wind Energy System**👥 Supervisors :**Dr. Vijayakumar K.**📅 Year of Award :**2019**✉ 2014REE9528@gmail.com** 8058302603**Dr. Sujil A****✉ 2014REE9531****⚙ Thesis Title :**Smart Microgrid Management Using Multi Agent System**👥 Supervisors :**Prof. Rajesh Kumar**📅 Year of Award :**2019**✉ 2014ree9531@mnit.ac.in****Dr. Pradeep Singh****✉ 2014REE9532****⚙ Thesis Title :**Investigations On Voltage Stability Assessment And Facts Modeling Approaches**👥 Supervisors :**Prof. Rajive Tiwari**📅 Year of Award :**2019**✉ 2014REE9532@mnit.ac.in**

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- 👥 Supervisors :**Prof. Manoj Fozdar
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**Dr. Soumyadeep Ray**

- ✉ 2015REE9034**
- ⚙ Thesis Title :**Investigation On Cascaded H-Bridge Five-Level Inverter-Based Active Power Filter
- 👥 Supervisors :**Dr. Nitin Gupta & Prof. R. A. Gupta
- 📅 Year of Award :**2019
- ✉ 2015REE9034@mnit.ac.in**

**Dr. Rajvir Kaur**

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- ⚙ Thesis Title :**Design And Analysis Of Switched Mode Power Converters For Renewable Based Telecom Supply
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2013REE9545

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