



- ▶ Exergy Analysis of Waste Heat Based Combined Rankine Ejector-Absorption Refrigeration System (OTH-28)
- ▶ Analyzing Thermal Insulation Effect of new Transparent Thin Films (OTH-30)
- ▶ 4-E (Energy-Exergy-Environment-Economic) Analysis of Stand-alone Solar Thermal Power Plants and Solar-Coal Hybrid Power Plants (PV-1)
- ▶ Experimental Study of the Performance of Two Different Types of Photovoltaic Thermal (PVT) Modules under Singapore Climatic Conditions (PV-2)
- ▶ Energy Efficient Solar Street Lighting System for Rural Areas (PV-3)
- ▶ A Comparative Study for a Building Integrated Semitransparent Photovoltaic Thermal (BISPVT) System Integrated to Roof With and Without Duct (PV-4)
- ▶ Mathematical Model for Computing Maximum Power Output of a PV Solar Module and Experimental Validation (PV-5)
- ▶ Thermal Modelling of Hybrid PVT Water Heating System using Glass to Glass PV Module (PV-6)
- ▶ TiO<sub>2</sub> Coated Pebbles for Solar Photocatalytic Treatment of Dye bath Wastewater (PV-7)
- ▶ Techno-Economic Analysis of Stand-alone Solar Fed AC Vs DC System (PV-12)
- ▶ Analysis of Different Type of Hybrid Photovoltaic Thermal Air Collectors: A Comparative Study (PV-13)
- ▶ Photovoltaic Thermal (PV-T) Systems: Overview, Recent Achievements and Challenges (PV-15)
- ▶ Effect of Panel Size on Solar Photovoltaic Refrigeration System (PV-16)
- ▶ Full-scale Experimentation of a Roof and Façade BIPV Component in Naturally Ventilated Double-skin Configuration (PV-17)
- ▶ A Review on Hybrid Photovoltaic Thermal (PVT) Solar Systems (PV-18)
- ▶ Performance Evaluation of Hybrid Photovoltaic-Thermal (PVT) Greenhouse Dryer: An Experimental Study (PV-19)
- ▶ “Risks of Solar PV Manufacturers and Developers in India” (PV-21)
- ▶ Study of Hybrid Photovoltaic Thermal (HPVT) Solar Water Heater at Constant Collection Temperature for Indian Climatic Conditions (PV-22)
- ▶ Field Experience of 1.2 kWp PV Array System in New Delhi: Performance Indices Evaluation (PV-24)
- ▶ A Case Study to Fulfil the Requirement of Low Income Group (LIG) House by Installing PV Panel (PV-25)
- ▶ A Photovoltaic Maximum Power Point Tracker: An ANN Approach (PV-28)
- ▶ Full-scale Experimentation of Building Integrated Photovoltaic Component for Naturally Ventilated Double-skin Configuration (PV-29)
- ▶ Life Cycle GHG Emissions of 200 kWp Grid Connected Solar Photovoltaic System in India (PV-31)
- ▶ Comparison of Performance Analysis of a Hybrid Photovoltaic Thermal Double and Single Pass Air Collector Using Artificial Neural Network (PV-32)
- ▶ Performance Evaluation of Conventional Hybrid Photovoltaic Thermal (PVT) Mixed Mode Dryer (PV-33)
- ▶ Performance Evaluation of Building Integrated Glass to Glass Photovoltaic Module Fitted Greenhouse Dryer (PV-34)
- ▶ Development and Testing of Hybrid Photovoltaic-Thermal (PVT) Integrated Solar Dryer: Techno-economic Analysis (PV-36)
- ▶ Thermal Modelling and Experimental Validation of Hybrid Photovoltaic Thermal (HPVT)-Biogas Plants (PV-39)
- ▶ Optimal Battery Sizing for a given Rated Power of Stand-alone PV System for Different Mode of Operation (PV-40)
- ▶ Conductivity and Photoluminescent Studies of Some PPVs (Conducting Polymers) for its Use in Organic Solar Cells (PV-41)
- ▶ Carbon Credits Earned by Hybrid Photovoltaic Thermal Array (PV-42)
- ▶ Evaluation and Utilization of Kitchen Waste under Anaerobic Digestion for Biogas Production (RES-2)
- ▶ Sustainability of Utilizing Bullock Power through Mechanical Gear System for Various Agricultural Post Harvest Operations in Reducing Non-renewable Energy Requirements (RES-3)
- ▶ Performance Evaluation of EAHE, Skylight and SAPV Integrated IIT Mudhouse (RES-5)
- ▶ Evaluation of Carbon Credit Earned by Different Designs of Solar Stills (RES-8)
- ▶ Characterization of Water Quality of the National River Ganga at Varanasi, India (RES-11)
- ▶ Influence of Water Temperature and Dissolved Oxygen to the Growth of Catla (*Catla catla*) and Rohu (*Labeo rohita*) in Greenhouse (RES-13)
- ▶ Energy Balance for Bituminous Road for Harnessing Renewable Energy Source (RES-14)
- ▶ RET Diffusion Model for Techno-Economics Feasibility (RES-15)
- ▶ Drying Behavior of Chilli under Open Sun and Greenhouse Conditions (ST-2)
- ▶ Sustainable Use of Producer Gas for a Diesel Engine on Dual Fuel Mode of Diesel-cum-Producer Gas in Performing Various Agricultural Operations by Engine Run Machines (ST-3)
- ▶ Thermal Modeling and Performance Evaluation of an Earth to Air Heat Exchanger Integrated with a Greenhouse (ST-4)
- ▶ Theoretical Parametric Study of Evacuated Tubes Integrated Single Slope Solar Still (ST-7)
- ▶ Solar Drying Technology: Potentials and Developments (ST-10)
- ▶ Validation of the Basis of Experimental Simulation of Heat Transfer between A Building and Surrounding Earth (ST-12)
- ▶ Evaluation and Validation of Daylighting Model for Inverted Z-Shape Roof Type Mudhouse (ST-13)
- ▶ High Temperature Desalination by Compound Parabolic Concentrator-tubular Solar Still Coupled with Single Slope Solar Still (ST-14)
- ▶ Thermodynamic Analysis of a Solar Driven Absorption Refrigeration System (ST-15)
- ▶ Thermal Performance of Double Slope Floating Cum Titled-Wick Solar Still with the Effect of Water Flowing Over the Glass Cover (ST-16)
- ▶ Heating
- ▶ Cooling Potential of Dome-shaped House for Cold Climate of Srinagar (India) (ST-17)
- ▶ Mathematical Modeling of a Solar Crop Dryer with Biomass Back-up Heater: A Case for Solar-Biomass Hybrid Systems (ST-18)
- ▶ Experimental Studies on Phase Change Material based Thermal Energy Storage System for Solar Water Heating Applications (ST-21)
- ▶ Solar Thermal Power Plant Simulator (ST-23)
- ▶ Experimental Investigation of Convective flow Boiling in the Absorber Tube of the Linear Fresnel Reflector Solar Thermal System (ST-24)
- ▶ Role of Condensing Covers and Performance of a Double Slope Solar Still (ST-25)
- ▶ The Effect of Water Depth and Glass Cover Inclination on Thermal Efficiency of Domestic Type Fiber Reinforced Plastic Made Single Slope Solar Still (ST-26)
- ▶ Experience with Horizontal Earth Air Heat Exchanger in Zogota Colombia for Air Conditioned in Scholar Spaces (ST-28)
- ▶ Comparison of Cavity Receivers With and Without Mouth Blockage of Different Shapes and Sizes used in Paraboloid Dish Applications (ST-30)

- ▶ Parametric Based Performance Comparison of Passive and Active Solar Distillation Systems using the Concept of Solar Fraction (ST-31)
  - ▶ Simple Drying Model for Performance Prediction of Solar Dryer (ST-32)
  - ▶ Hybrid Photovoltaic-Thermal (HPVT) Solar Water Heating System: An Experimental Study (ST-33)
  - ▶ New Solar Still with the Suction of Wet Air: A Solution in the Isolated Areas (ST-34)
  - ▶ Exergy Analysis and Carbon Credit Earned from Double Slope Active Solar Still under Natural Circulation Mode (ST-36)
  - ▶ Evaluation of Specific Energy Consumption during Drying of Cylindrical Potato Samples for Different Thickness and Loading Densities (ST-37)
  - ▶ Direct Beam Radiation from Global Radiation for New Delhi (ST-38)
  - ▶ Performance Analysis of a Flat-plate Solar Collectors using Al<sub>2</sub>O<sub>3</sub>
  - ▶ Water Nanofluid (ST-39)
  - ▶ Heat Transfer Coefficients of a Distiller: Indoor Simulation (ST-40).
- 

#### **About the Author**

**G.N. Tiwari** :- G.N. Tiwari, Professor, Centre for Energy Studies, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016

**C.S. Rajoria** :- C.S. Rajoria, Asst. Professor, Department of Mechanical Engineering, Engineering College Bikaner, Bikaner, Rajasthan

**R.K. Mishra** :- R.K. Mishra, SRF, Centre for Energy Studies, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016

**S. Agarwal** :- S. Agrawal, Reader, School of Engineering of Technology, IGNOU, Maidan Garhi, New Delhi-110016