


Three-dimensional numerical study of the smoke generated inside a room with a hole in the ceiling was performed. The study considered the following factors: air flow, temperature, combustible gas concentrations, and smoke flow patterns.

Numerical simulation of a heat exchanger equipped with a fan in south-west Algeria was conducted. The study aimed to investigate the performance of the heat exchanger and its impact on indoor temperature and humidity.

Study of temperature variation effect on the convective heat transfer through a rotating curved channel was performed. The investigation considered the following factors: Taylor number, Dean number, and secondary flow.

Numerical prediction of non-isothermal flow with heat and mass transfer through rotating curved channel with bottom wall heating and cooling from the ceiling was conducted. The study aimed to investigate the heat transfer and mass transfer characteristics in the curved channel.

Optimal wind speed for different configurations of perforated boxes was investigated for their potential use in cooling systems.

Numerical investigation of heat and mass transfer through an earth to air heat exchanger was conducted. The study aimed to investigate the heat transfer and mass transfer characteristics in the heat exchanger.

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Ranjbaran, A., Norozi, M. (2019). Design and fabrication of a novel hybrid solar distillation system with the ability to increase solar energy.


Fractal features of fractional Brownian motion and fractional mechanism with power law (singular)

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Investigation of combustion and emissions of a biomass based fuel with metal powders in a fuelled combustion chamber: single pellet, combustion and emission measurements, thermal performance, experiment, emission, analysis.

Research on optimisation of optical fibre probe gas sensing head based on the adaptive weighted data fusion algorithm

Analysis of structural integrity in a differently bonded high density ceramic cavity

Design of an effective rapid nozzle cleaning system for fused deposition modelling 3D printer: base, nozzle, temperature, distance, optimal, nozzle, coating

Numerical simulation of the effects of hydrogen flow on multiphase flow around a circular cylinder with two-dieges,

Parametric analysis and optimisation of convective with variable thermal conductivity using semi-analytical solution

Numerical simulation of pressure waves induced by high-speed impingement passage through panels

Numerical investigation of pin heat-sink for staggered and inline arrays on long beryllium number

Design of an intelligent rapid nozzle cleaning system for fused deposition modelling 3D printer: base, nozzle, temperature, distance, optimal, nozzle, coating


Enhanced of thermoelectric properties and effects of 5 % doping on the electrical properties of TiO2-doped ZnO nanoparticles.

Enhanced thermal expansion and physical properties of TiO2-doped ZnO nanoparticles: optical, electrical, thermal conductivity, microstructure, phase, force, power.

Cladding diffusion analysis of reinforced concrete beams enhanced with internally bonded fibre reinforced composite considering the presence of ribs and stirrups


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Influence of low concentration of diamond water nanofluid in loop heat pipe.

Numerical study of three-dimensional separation control in an axial compressor.

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Performance analysis of wind-alone side flip-folding system for electricity generation.

Experimental research on temperature variation and scale developments in cooled fine.

Valuation of a simplified method for the evaluation of pressure and temperature on a RR Merlet XS test section.

Numerical study of thermal properties of bio-composite (gypsum plaster reinforced with palm-tree fiber) for building insulation.

Numerical study of mixing angle number on thermal performance of a cerametric monolith heat exchanger using silicon carbide and aluminium nitride as heat transfer material.


Influence of Couette fluid flow through a solar flat plate collector.

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Effects of solute structure of natural gas pipeline on condensation of steam vapor.

Effects of solute structure of natural gas pipeline on condensation of steam vapor.


Performance analysis of wind-alone side flip-folding system for electricity generation.

Numerical study of mixed convection and flow pattern in various across-shape concave enclosures.

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A neural tool for the prediction of the experimental dynamics of flow phase flows.

Functional model, neural identification, diffusion problems, two-phase flow.

Optimal surface texture design of journal bearing with tube grooves.

Surface texture, journal bearing, B2 boundary condition, local carrying capacity.


A comparison between electrocaloric and magnetocaloric materials for solid state refrigeration

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