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Araştırma Alanları

Mühendislik ve Teknoloji

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Pulsating non-Newtonian heat and fluid flow in a concentric annular duct: An analysis using perturbation series method**
ALTUNKAYA A. N., AYDIN O., AVCI M.
International Communications in Heat and Mass Transfer, cilt.154, 2024 (SCI-Expanded)
- II. **Thermal cycling performance of a Shell-and-tube latent heat thermal energy storage system with paraffin/graphite matrix composite**
SAĞLAM M., Ceboglu E., BİRİNCİ S., Sarper B., AYDIN O.
Journal of Energy Storage, cilt.83, 2024 (SCI-Expanded)
- III. **A novel fabrication method for polymeric flat plate pulsating heat pipe via additive manufacturing**
CANDAN CANDERE A., Miché N., Bernagozzi M., SAĞLAM M., Georgoulas A., AYDIN O., Marengo M.
Applied Thermal Engineering, cilt.241, 2024 (SCI-Expanded)
- IV. **Effect of inlet temperature on flow boiling behavior of expanding micro-pin-fin type heat sinks**
Markal B., Evcimen A., Aydin O.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, cilt.149, 2023 (SCI-Expanded)
- V. **Optimizing the tube geometry to enhance thermohydraulic performance of tube bank heat exchanger**
AKTAŞ A. E., Kuru M. N., Erdinc M. T., AYDIN O., BİLGİLİ M.
International Journal of Thermal Sciences, cilt.193, 2023 (SCI-Expanded)
- VI. **Comparative investigation of different types of expanding micro-pin-fin heat sinks at low mass flux**
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- VII. **Effect of fin width ratio on thermal performance of fin based-heat sink with phase change materials**
Yazici M. Y., AVCI M., AYDIN O., Arshad A., Jabbal M.
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- VIII. **Pulsating flow and heat transfer of power-law fluid in a circular pipe**
ALTUNKAYA A. N., AYDIN O., AVCI M.
Nonlinear Analysis: Modelling and Control, cilt.28, sa.1, ss.56-73, 2023 (SCI-Expanded)

- IX. **Performance improvement potential of a PV/T integrated dual-source heat pump unit with a pressure booster ejector**
Tahir Erdinc M., Kutlu C., Unal S., AYDIN O., Su Y., Riffat S.
Thermal Science and Engineering Progress, cilt.37, 2023 (SCI-Expanded)
- X. **The role of jet-to-crossflow velocity ratio on convective heat transfer enhancement in the cooling of discrete heating modules**
Albayrak M., Sarper B., SAĞLAM M., BİRİNCİ S., AYDIN O.
THERMAL SCIENCE AND ENGINEERING PROGRESS, cilt.37, 2023 (SCI-Expanded)
- XI. **Investigation of effect of a mechanical agitator on pool boiling heat transfer**
Sahin F., Kaya A., Alic E., AYDIN O.
International Communications in Heat and Mass Transfer, cilt.139, 2022 (SCI-Expanded)
- XII. **Constructual enhancement of cooling performance of local heating elements with different heat generation rates under free and mixed convection regimes**
Sarper B., BİRİNCİ S., SAĞLAM M., AYDIN O.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, cilt.135, 2022 (SCI-Expanded)
- XIII. **An optimization study on thermo-hydraulic performance arrays of circular and diamond shaped cross-sections in periodic flow**
Erdinc M. T., AKTAŞ A. E., Kuru M. N., BİLGİLİ M., AYDIN O.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, cilt.129, 2021 (SCI-Expanded)
- XIV. **Effect of double cross sectional ratio on performance characteristics of pulsating heat pipes**
MARKAL B., Candere A., AVCI M., AYDIN O.
International Communications in Heat and Mass Transfer, cilt.127, 2021 (SCI-Expanded)
- XV. **Thermal energy storage performance of PCM/graphite matrix composite in a tube-in-shell geometry**
Yazici M., SAĞLAM M., AYDIN O., AVCI M.
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- XVI. **Investigation of flat plate type pulsating heat pipes via flow visualization-assisted experiments: Effect of cross sectional ratio**
MARKAL B., Candere A., AVCI M., AYDIN O.
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- XVII. **Effect of heaters' clearance on mixed convection cooling performance in a discretely heated horizontal duct**
BİRİNCİ S., SAĞLAM M., Sarper B., AYDIN O.
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- XVIII. **Constructual design of heat sources with different heat generation rates for the hot spot mitigation**
BİRİNCİ S., SAĞLAM M., Sarper B., AYDIN O.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, cilt.163, 2020 (SCI-Expanded)
- XIX. **Conical coaxial impinging air jets: angle effect on the heat transfer performance**
MARKAL B., AVCI M., AYDIN O.
HEAT AND MASS TRANSFER, cilt.56, sa.12, ss.3135-3146, 2020 (SCI-Expanded)
- XX. **Effect of air exhaust location on surgical site particle distribution in an operating room**
AĞIRMAN A., ÇETİN Y. E., Avci M., AYDIN O.
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- XXI. **Evaluation of in-duct UV-C lamp array on air disinfection: A numerical analysis**
Atıcı F., Çetin Y. E., Avci M., Aydin O.
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- XXII. **Effect of laminar airflow unit diffuser size on pathogen particle distribution in an operating room**
Ağırman A., Çetin Y. E., Avci M., Aydin O.
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- XXIII. **Effect of air change rate on particle dispersion from inlet opening under varying particle source strengths**
Çetin Y. E., Avci M., Aydin O.

- International Journal Of Ventilation, cilt.0, ss.1-18, 2020 (SCI-Expanded)
- XXIV. **Particle dispersion and deposition in displacement ventilation systems combined with floor heating**
ÇETİN Y. E., Avci M., AYDIN O.
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- XXV. **Influence of ventilation strategies on dispersion and removal of fine particles: An experimental and simulation study**
Cetin Y., Avci M., AYDIN O.
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- XXVI. **Prediction of Two-Phase Heat Transfer Coefficient of Flow Boiling in Minichannels**
MARKAL B., Candan A., AYDIN O., Avci M.
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- XXVII. **Flow boiling characteristics in a novel minichannel with a step on each corner**
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- XXVIII. **Melting and solidification of PCM in a tube-in-shell unit: Effect of fin edge lengths' ratio**
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- XXIX. **Combined effects of inclination angle and fin number on thermal performance of a PCM-based heat sink**
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- XXX. **Effect of hydraulic diameter on flow boiling in rectangular microchannels**
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- XXXI. **Prediction of Pressure Drop for Flow Boiling in Rectangular Multi-Microchannel Heat Sinks**
Markal B., AYDIN O., Avci M.
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- XXXII. **Natural Convection in an Enclosure with a Pair of Discrete Heat Sources**
SAĞLAM M., Sarper B., AYDIN O.
JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER, cilt.33, sa.1, ss.234-245, 2019 (SCI-Expanded)
- XXXIII. **Constructal Placement of Discrete Heat Sources With Different Lengths in Vertical Ducts Under Natural and Mixed Convection**
SARPER B., SAĞLAM M., AYDIN O.
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- XXXIV. **ENHANCING STORAGE PERFORMANCE IN A TUBE-IN SHELL STORAGE UNIT BY ATTACHING A CONDUCTING FIN TO THE BOTTOM OF THE TUBE**
AYDIN O., AVCI M., YAZICI M. Y., AKGUN M.
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- XXXV. **Experimental and numerical investigation of natural convection in a discretely heated vertical channel: Effect of the blockage ratio of the heat sources**
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- XXXVI. **Experimental investigation of flow boiling in single minichannels with low mass velocities**
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- XXXVII. **Experimental investigation of coaxial impinging air jets**
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- XXXVIII. **Analysis of extended micro-Graetz problem in a microtube**
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- XXXIX. **Natural convection in a parallel-plate vertical channel with discrete heating by two flush-mounted heaters: effect of the clearance between the heaters**
Sarper B., SAĞLAM M., AYDIN O., Avci M.
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- XL. **EXPERIMENTAL STUDY OF SINGLE-PHASE FLUID FLOW AND HEAT TRANSFER CHARACTERISTICS IN RECTANGULAR MICROCHANNELS**
Markal B., AYDIN O., Avci M.
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- XLI. **Saturated flow boiling characteristics in single rectangular minichannels: effect of aspect ratio**
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- XLII. **ENHANCING STORAGE PERFORMANCE IN A TUBE-IN SHELL STORAGE UNIT BY ATTACHING A CONDUCTING FIN TO THE BOTTOM OF THE TUBE**
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- XLIII. **Effects of viscous dissipation on mixed convection in a vertical parallel-plate microchannel with asymmetric uniform wall heat fluxes: The slip regime**
ALTUNKAYA A. N., Avci M., AYDIN O.
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- XLIV. **Prediction of Heat Transfer Coefficient in Saturated Flow Boiling Heat Transfer in Parallel Rectangular Microchannel Heat Sinks: An Experimental Study**
Markal B., AYDIN O., Avci M.
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- XLV. **An experimental investigation of saturated flow boiling heat transfer and pressure drop in square microchannels**
Markal B., AYDIN O., Avci M.
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- XLVI. **Effect of aspect ratio on saturated flow boiling in microchannels**
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- XLVII. **INFLUENCE OF OSMOTIC DEHYDRATION ON DRYING KINETICS OF CARROT**
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- XLVIII. **Conjugate-MHD mixed convection from a vertical flat plate in presence of viscous dissipation**
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- XLIX. **Laminar forced convective slip flow in a microduct with a sinusoidally varying heat flux in axial direction**
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- L. **PRESSURE-DRIVEN LAMINAR PULSATİNG FLOW IN A PIPE: EFFECT OF THE AMPLITUDE**
Aygun C., AYDIN O.
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- LI. **Conjugate heat transfer in a duct with an axially varying heat flux**
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- LII. **An experimental study on the decaying swirl flow in a tube**
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- LIII. **Hydrodynamics of piston-driven laminar pulsating flow: Part 1. Developing flow**
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- LIV. **Hydrodynamics of piston-driven laminar pulsating flow: Part 2. Fully developed flow**
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- LV. **Effect of eccentricity on melting behavior of paraffin in a horizontal tube-in-shell storage unit: An experimental study**
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- LVI. **On the effect of eccentricity of a horizontal tube-in-shell storage unit on solidification of a PCM**
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- LVII. **ON THE HYDRODYNAMICAL DEVELOPMENT LENGTH FOR PRESSURE-DRIVEN PULSATING LAMINAR FLOW IN A PIPE**
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- LVIII. **EFFECTS OF BUOYANCY AND CONJUGATE HEAT TRANSFER FLOW OVER ON A VERTICAL PLATE EMBEDDED IN A POROUS MEDIA**
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- LIX. **Heat transfer in a turbulent slot jet flow impinging on concave surfaces**
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- LX. **Laminar natural convection in right-angled triangular enclosures heated and cooled on adjacent walls**
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- LXI. **MHD mixed convection of a viscous dissipating fluid about a vertical slender cylinder**
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- LXIII. **Conjugate heat transfer with viscous dissipation in a microtube**
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- LXIV. **Exergy analysis of a counter-flow Ranque-Hilsch vortex tube having different helical vortex generators**
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- LXVII. **Natural convection in an inclined quadrantal cavity heated and cooled on adjacent walls**
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- LXVIII. **Analytical Investigation of Heat Transfer in Couette-Poiseuille Flow Through Porous Medium**
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- LXIX. **Natural Convection in a Quadrantal Cavity Heated and Cooled on Adjacent Walls**
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- LXX. **MHD-mixed convection from a vertical slender cylinder**
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- LXXI. **EFFECTS OF THERMAL RADIATION ON STEADY MHD MIXED CONVECTIVE HEAT TRANSFER FLOW OVER AN IMPERMEABLE INCLINED PLATE EMBEDDED IN A POROUS MEDIUM**
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- LXXII. **A new vortex generator geometry for a counter-flow Ranque-Hilsch vortex tube**
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- LXXVI. **On the constant wall temperature boundary condition in internal convection heat transfer studies including viscous dissipation**
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- LXXVII. **Comparison of experimental data with results of some drying models for regularly shaped products**
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- LXXVIII. **Frictional Pressure Drop for Gas Flows in a Microchannel Between Two Parallel Plates**
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- LXXIX. **MHD mixed convection of a viscous dissipating fluid about a permeable vertical flat plate**
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- LXXX. **MHD mixed convective heat transfer flow about an inclined plate**
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- LXXXI. **Conjugate heat transfer in thermally developing laminar flow with viscous dissipation effects**
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- LXXXII. **ANALYSIS OF HEAT AND FLUID FLOW IN CONCENTRIC ANNULAR SQUARE DUCTS**
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- LXXXIII. **Experimental and theoretical analysis of drying carrots**
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- LXXXIV. **Reply to comments on our below referenced article by K. Hooman "Viscous-dissipation effects on the heat transfer in a Poiseuille flow"**
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- LXXXV. **An experimental study on drying kinetics of some herbal leaves**
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- LXXXVI. **THE EFFECT OF RADIATION ON FORCED CONVECTION FLOW AROUND A WEDGE**
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- LXXXVII. **Mixed Convection in a Vertical Microannulus Between Two Concentric Microtubes**
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- LXXXVIII. **Radiation effect on MHD mixed convection flow about a permeable vertical plate**
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- LXXXIX. **Experimental and numerical investigation of heat and mass transfer during drying of Hayward kiwi fruits (*Actinidia Deliciosa Planch*)**
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- XC. **Laminar forced convection slip-flow in a micro-annulus between two concentric cylinders**
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- XCI. **Reply to comments on "Non-Darcian Forced Convection Flow of Viscous Dissipating Fluid over a Flat Plate Embedded in a Porous Medium"**
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- XCII. **Experimental investigation of drying kinetics of cherry laurel**
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- XCIII. **Non-darcian forced convection flow of viscous dissipating fluid over a flat plate embedded in a porous medium**
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