

Prof. MUSTAFA TÜRKYILMAZOĞLU

Personal Information

Email: turkyilm@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/turkyilm>

International Researcher IDs

ORCID: 0000-0003-0412-4580

Yoksis Researcher ID: 11133

Education Information

Doctorate, Fen, Matematik, United Kingdom 1994 - 1998

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Doktora Tezi, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1998

Research Areas

Mathematics, Computer Science, Differential Equations, Approximations and Expansions, Natural Sciences

Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2003 - 2006

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2001 - 2004

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1999 - 2004

Advising Theses

TÜRKYILMAZOĞLU M., Dönen akışkanlar ve bazı uygulamaları, Postgraduate, P.ŞENEL(Student), 2012

TÜRKYILMAZOĞLU M., Sıkıştırılabilir 3-boyutlu dönen-disk akışındaki kararsızlık mekanizmaları, Doctorate,

N.UYGUN(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

1. Corrections to long wavelength approximation of peristalsis viscous fluid flow within a wavy channel

TÜRKYILMAZOĞLU M.

Chinese Journal of Physics, vol.89, pp.340-354, 2024 (SCI-Expanded)

- II. **Darcy–Brinkman porous medium for dusty fluid flow with steady boundary layer flow in the presence of slip effect**
Rahman M., Waheed H., TÜRKYILMAZOĞLU M., Siddiqui M. S.
International Journal of Modern Physics B, vol.38, no.11, 2024 (SCI-Expanded)
- III. **Unsteady Fluid Flow in a Darcy–Brinkman Porous Medium with Slip Effect and Porous Dissipation**
Rahman M., Waheed H., TÜRKYILMAZOĞLU M., Siddiqui M. S.
International Journal of Modern Physics B, vol.38, no.9, 2024 (SCI-Expanded)
- IV. **Effects of multiple shapes for steady flow with transformer oil+Fe₃O₄+TiO₂ between two stretchable rotating disks**
Rahman M., TÜRKYILMAZOĞLU M., Mushtaq Z.
Applied Mathematics and Mechanics (English Edition), vol.45, no.2, pp.373-388, 2024 (SCI-Expanded)
- V. **RELIABLE COMPUTATIONAL METHODS FOR SOLVING JEFFERY-HAMEL FLOW PROBLEM BASED ON POLYNOMIAL FUNCTION SPACES**
Salih O., TÜRKYILMAZOĞLU M., Al-Jawary M.
Applied and Computational Mathematics, vol.23, no.1, pp.70-82, 2024 (SCI-Expanded)
- VI. **Generalized vortex flow of nanoparticle shapes over a permeable disc surface with generalized slip conditions**
Rahman M., Ali A., TÜRKYILMAZOĞLU M.
Modern Physics Letters B, 2024 (SCI-Expanded)
- VII. **Generalized mean state of the isothermal Darcy–Benard problem and its instability onset**
TÜRKYILMAZOĞLU M., Duraihem F. Z.
European Journal of Mechanics, B/Fluids, vol.103, pp.334-342, 2024 (SCI-Expanded)
- VIII. **On heat transfer with unsteady MHD nanofluid von Karman flow with uniform suction**
Rahman M., TÜRKYILMAZOĞLU M., Bilal M., Sharif F.
Pramana - Journal of Physics, vol.97, no.4, 2023 (SCI-Expanded)
- IX. **Advective flow in a magnetized layer of fluid between hydro-thermal slippery parallel walls**
TÜRKYILMAZOĞLU M.
Archive of Applied Mechanics, vol.93, no.12, pp.4351-4360, 2023 (SCI-Expanded)
- X. **Darcy–Benard convection through a uniformly permeable porous slab**
TÜRKYILMAZOĞLU M.
Communications in Nonlinear Science and Numerical Simulation, vol.125, 2023 (SCI-Expanded)
- XI. **Hyperthermia therapy of cancerous tumor sitting in breast via analytical fractional model**
TÜRKYILMAZOĞLU M.
Computers in Biology and Medicine, vol.164, 2023 (SCI-Expanded)
- XII. **Impact of multiple shapes on Al₂O₃–Cu/ H₂O–C₂H₆O₂ towards a permeable surface of cylinder**
Rahman M., TÜRKYILMAZOĞLU M., Matloob K.
Journal of Magnetism and Magnetic Materials, vol.581, 2023 (SCI-Expanded)
- XIII. **A highly accurate peak time formula of epidemic outbreak from the SIR model**
TÜRKYILMAZOĞLU M.
Chinese Journal of Physics, vol.84, pp.39-50, 2023 (SCI-Expanded)
- XIV. **Fully developed flow in a long triangular channel under an applied magnetic field**
TÜRKYILMAZOĞLU M., Duraihem F. Z.
Journal of Magnetism and Magnetic Materials, vol.578, 2023 (SCI-Expanded)
- XV. **A Two-Parameter Family of Basic State in Porous Media Leading to Darcy–Bénard Convection**
TÜRKYILMAZOĞLU M.
Transport in Porous Media, vol.148, no.3, pp.519-533, 2023 (SCI-Expanded)
- XVI. **Towards an approximate solution of highly viscous electro-osmotic flows in inclined Channel: Applications in petroleum and gas engineering**
Nazeer M., Hussain F., TÜRKYILMAZOĞLU M., Ali Z.

- Journal of Magnetism and Magnetic Materials, vol.577, 2023 (SCI-Expanded)
- XVII. **Induced flow and heat transfer due to inner stretching and outer stationary coaxial cylinders**
TÜRKYILMAZOĞLU M., Pop I.
International Communications in Heat and Mass Transfer, vol.146, 2023 (SCI-Expanded)
- XVIII. **Uniform magnetic field impact on absolute versus convective onset of Darcy–Benard convection with horizontal throughflow**
TÜRKYILMAZOĞLU M.
International Journal of Numerical Methods for Heat and Fluid Flow, vol.33, no.8, pp.3056-3070, 2023 (SCI-Expanded)
- XIX. **The instability onset of generalized isoflux mean flow using Brinkman-Darcy-Bénard model in a fluid saturated porous channel**
TÜRKYILMAZOĞLU M., Siddiqui A. A.
International Journal of Thermal Sciences, vol.188, 2023 (SCI-Expanded)
- XX. **The flow and heat in the conical region of a rotating cone and an expanding disk**
TÜRKYILMAZOĞLU M.
International Journal of Numerical Methods for Heat and Fluid Flow, vol.33, no.6, pp.2181-2197, 2023 (SCI-Expanded)
- XXI. **Full Solutions to Flow and Heat Transfer from Slip-Induced Microtube Shapes**
TÜRKYILMAZOĞLU M., Duraihem F. Z.
Micromachines, vol.14, no.4, 2023 (SCI-Expanded)
- XXII. **Three dimensional viscous flow due to a squeezing porous slider**
TÜRKYILMAZOĞLU M.
European Journal of Mechanics, B/Fluids, vol.98, pp.253-259, 2023 (SCI-Expanded)
- XXIII. **Transient and passage to steady state in fluid flow and heat transfer within fractional models**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.33, pp.728-750, 2023 (SCI-Expanded)
- XXIV. **Numerical solution of Al₂O₃-H₂O with shape effects and unsteady flow over a solid rotating disk**
Rahman M., TÜRKYILMAZOĞLU M., Bilal M.
International Journal of Modern Physics B, 2023 (SCI-Expanded)
- XXV. **Fractional models of falling object with linear and quadratic frictional forces considering Caputo derivative**
TÜRKYILMAZOĞLU M., Altanji M.
Chaos, Solitons and Fractals, vol.166, 2023 (SCI-Expanded)
- XXVI. **Indoor transmission of airborne viral aerosol with a simplistic reaction-diffusion model**
TÜRKYILMAZOĞLU M.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.231, no.18-20, pp.3591-3601, 2022 (SCI-Expanded)
- XXVII. **Prescribed Temperature Profiles of Longitudinal Convective-Radiative Fins Subject to Axially Distributed Thermal Conductivities**
TÜRKYILMAZOĞLU M.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.47, no.12, pp.15689-15703, 2022 (SCI-Expanded)
- XXVIII. **Radially expanding/contracting and rotating sphere with suction**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.32, no.11, pp.3439-3451, 2022 (SCI-Expanded)
- XXIX. **Novel approximate solution for fractional differential equations by the optimal variational iteration method**
Ibraheem G. H., TÜRKYILMAZOĞLU M.
JOURNAL OF COMPUTATIONAL SCIENCE, vol.64, 2022 (SCI-Expanded)
- XXX. **Unsteady three-dimensional magnetohydrodynamics flow of nanofluids over a decelerated rotating disk with uniform suction**

Rahman M., Sharif F., TÜRKYILMAZOĞLU M., Siddiqui M. S.

PRAMANA-JOURNAL OF PHYSICS, vol.96, no.4, 2022 (SCI-Expanded)

- XXXI. **Lid-Driven Butterfly Cavity for a Controllable Viscous Flow**
TÜRKYILMAZOĞLU M.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.144, no.9, 2022 (SCI-Expanded)
- XXXII. **A restricted epidemic SIR model with elementary solutions**
TÜRKYILMAZOĞLU M.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.600, 2022 (SCI-Expanded)
- XXXIII. **Driven flow motion by a dually moving lid of a square cavity**
TÜRKYILMAZOĞLU M.
EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.94, pp.17-28, 2022 (SCI-Expanded)
- XXXIV. **An extended epidemic model with vaccination: Weak-immune SIRVI**
TÜRKYILMAZOĞLU M.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.598, 2022 (SCI-Expanded)
- XXXV. **Exponential nonuniform wall heating of a square cavity and natural convection**
TÜRKYILMAZOĞLU M.
CHINESE JOURNAL OF PHYSICS, vol.77, pp.2122-2135, 2022 (SCI-Expanded)
- XXXVI. **Flow and heat over a rotating disk subject to a uniform horizontal magnetic field**
TÜRKYILMAZOĞLU M.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.77, pp.329-337, 2022 (SCI-Expanded)
- XXXVII. **Asymptotic Suction/Injection Flow Induced by a Uniform Magnetohydrodynamics Free Stream Couple Stress Fluid Over a Flat Plate**
TÜRKYILMAZOĞLU M.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.144, no.3, 2022 (SCI-Expanded)
- XXXVIII. **Slit flow and thermal analysis of micropolar fluids in a symmetric channel with dynamic and permeable**
Siddiqui A. A., TÜRKYILMAZOĞLU M.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.132, 2022 (SCI-Expanded)
- XXXIX. **Maximum wave run-up over beaches of convex/concave bottom profiles**
TÜRKYILMAZOĞLU M.
CONTINENTAL SHELF RESEARCH, vol.232, 2022 (SCI-Expanded)
- XL. **Thermal performance of optimum exponential fin profiles subjected to a temperature jump**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.32, no.3, pp.1002-1011, 2022 (SCI-Expanded)
- XLI. **An Efficient Computational Method for Differential Equations of Fractional Type**
TÜRKYILMAZOĞLU M.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.133, no.1, pp.47-65, 2022 (SCI-Expanded)
- XLII. **MULTIPLE EXACT SOLUTIONS OF FREE CONVECTION FLOWS IN SATURATED POROUS MEDIA WITH VARIABLE HEAT FLUX**
TÜRKYILMAZOĞLU M.
JOURNAL OF POROUS MEDIA, vol.25, no.6, pp.53-63, 2022 (SCI-Expanded)
- XLIII. **Explicit formulae for the peak time of an epidemic from the SIR model. Which approximant to use?**
Kroeger M., TÜRKYILMAZOĞLU M., Schlickeiser R.
PHYSICA D-NONLINEAR PHENOMENA, vol.425, 2021 (SCI-Expanded)
- XLIV. **Heat absorption due to falling film with imposed uniform mass fraction at the wall**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.177, 2021 (SCI-Expanded)
- XLV. **Heat Transfer Enhancement Feature of the Non-Fourier Cattaneo-Christov Heat Flux Model**
TÜRKYILMAZOĞLU M.

- JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.143, no.9, 2021 (SCI-Expanded)
- XLVI. **Explicit formulae for the peak time of an epidemic from the SIR model**
TÜRKYILMAZOĞLU M.
PHYSICA D-NONLINEAR PHENOMENA, vol.422, 2021 (SCI-Expanded)
- XLVII. **An analytic parametric study of rounded laser pulse heating**
TÜRKYILMAZOĞLU M.
OPTIK, vol.240, 2021 (SCI-Expanded)
- XLVIII. **Stagnation-point flow and heat transfer over stretchable plates and cylinders with an oncoming flow: Exact solutions**
TÜRKYILMAZOĞLU M.
CHEMICAL ENGINEERING SCIENCE, vol.238, 2021 (SCI-Expanded)
- XLIX. **Heat transport in shear-driven flow with axial conduction**
TÜRKYILMAZOĞLU M.
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.123, pp.96-103, 2021 (SCI-Expanded)
- L. **Exact solutions concerning momentum and thermal fields induced by a long circular cylinder**
TÜRKYILMAZOĞLU M.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.136, no.5, 2021 (SCI-Expanded)
- LI. **Threshold for the generalized Non-Fourier heat flux model: Universal closed form analytic solution**
Jafarimoghaddam A., TÜRKYILMAZOĞLU M., Pop I.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.123, 2021 (SCI-Expanded)
- LII. **On the transparent effects of Buongiorno nanofluid model on heat and mass transfer**
TÜRKYILMAZOĞLU M.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.136, no.4, 2021 (SCI-Expanded)
- LIII. **Complete theory of the elastic wall jet: A new flow geometry with revisited two-phase nanofluids**
Jafarimoghaddam A., TÜRKYILMAZOĞLU M., Rocca A. V., Pop I.
EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.86, pp.25-36, 2021 (SCI-Expanded)
- LIV. **Magnetohydrodynamic Moving Liquid Plug Within a Microchannel: Analytical Solutions**
TÜRKYILMAZOĞLU M.
JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME, vol.143, no.1, 2021 (SCI-Expanded)
- LV. **Nonlinear Problems via a Convergence Accelerated Decomposition Method of Adomian**
TÜRKYILMAZOĞLU M.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.127, no.1, pp.1-22, 2021 (SCI-Expanded)
- LVI. **On the fluid flow and heat transfer between a cone and a disk both stationary or rotating**
TÜRKYILMAZOĞLU M.
MATHEMATICS AND COMPUTERS IN SIMULATION, vol.177, pp.329-340, 2020 (SCI-Expanded)
- LVII. **Nanoliquid film flow due to a moving substrate and heat transfer**
TÜRKYILMAZOĞLU M.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.135, no.10, 2020 (SCI-Expanded)
- LVIII. **An optimum profile of a special pin fin: full solutions**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.30, no.11, pp.4945-4954, 2020 (SCI-Expanded)
- LIX. **Exact and approximate solutions to projectile motion in air incorporating Magnus effect**
TÜRKYILMAZOĞLU M., Altundag T.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.135, no.7, 2020 (SCI-Expanded)
- LX. **Velocity Slip and Entropy Generation Phenomena in Thermal Transport Through Metallic Porous Channel**
TÜRKYILMAZOĞLU M.
JOURNAL OF NON-EQUILIBRIUM THERMODYNAMICS, vol.45, no.3, pp.247-256, 2020 (SCI-Expanded)
- LXI. **Natural convection in the ferrofluid enclosed in a porous and permeable cavity**
Siddiqui A. A., TÜRKYILMAZOĞLU M.

- INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.113, 2020 (SCI-Expanded)
- LXII. **Single phase nanofluids in fluid mechanics and their hydrodynamic linear stability analysis**
TÜRKYILMAZOĞLU M.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.187, 2020 (SCI-Expanded)
- LXIII. **Analytical and stability analysis of MHD flow past a nonlinearly deforming vertical surface in Carbon Nanotubes**
Anuar N. S., Bachok N., TÜRKYILMAZOĞLU M., Arifin N. M., Rosali H.
ALEXANDRIA ENGINEERING JOURNAL, vol.59, no.1, pp.497-507, 2020 (SCI-Expanded)
- LXIV. **A simple algorithm for high order Newton iteration formulae and some new variants**
TÜRKYILMAZOĞLU M.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.1, pp.425-438, 2020 (SCI-Expanded)
- LXV. **Cooling of Particulate Solids and Fluid in a Moving Bed Heat Exchanger**
TÜRKYILMAZOĞLU M.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.141, no.11, 2019 (SCI-Expanded)
- LXVI. **Fully developed slip flow in a concentric annuli via single and dual phase nanofluids models**
TÜRKYILMAZOĞLU M.
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE, vol.179, 2019 (SCI-Expanded)
- LXVII. **Free and circular jets cooled by single phase nanofluids**
TÜRKYILMAZOĞLU M.
EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.76, pp.1-6, 2019 (SCI-Expanded)
- LXVIII. **A New Theoretical Approach of Wall Transpiration in the Cavity Flow of the Ferrofluids**
Siddiqui A. A., TÜRKYILMAZOĞLU M.
MICROMACHINES, vol.10, no.6, 2019 (SCI-Expanded)
- LXIX. **Accelerating the convergence of Adomian decomposition method (ADM)**
TÜRKYILMAZOĞLU M.
JOURNAL OF COMPUTATIONAL SCIENCE, vol.31, pp.54-59, 2019 (SCI-Expanded)
- LXX. **Equivalence of Ratio and Residual Approaches in the Homotopy Analysis Method and Some Applications in Nonlinear Science and Engineering**
TÜRKYILMAZOĞLU M.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.120, no.1, pp.63-81, 2019 (SCI-Expanded)
- LXXI. **A Note on the Induced Flow and Heat Transfer Due to a Deforming Cone Rotating in a Quiescent Fluid**
TÜRKYILMAZOĞLU M.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.140, no.12, 2018 (SCI-Expanded)
- LXXII. **Buongiorno model in a nanofluid filled asymmetric channel fulfilling zero net particle flux at the walls**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.126, pp.974-979, 2018 (SCI-Expanded)
- LXXIII. **Analytical solutions to mixed convection MHD fluid flow induced by a nonlinearly deforming permeable surface**
TÜRKYILMAZOĞLU M.
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.63, pp.373-379, 2018 (SCI-Expanded)
- LXXIV. **Fluid flow and heat transfer over a rotating and vertically moving disk**
TÜRKYILMAZOĞLU M.
PHYSICS OF FLUIDS, vol.30, no.6, 2018 (SCI-Expanded)
- LXXV. **Stefan problems for moving phase change materials and multiple solutions**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.126, pp.67-73, 2018 (SCI-Expanded)
- LXXVI. **Hyperbolic Partial Differential Equations with Nonlocal Mixed Boundary Values and their Analytic Approximate Solutions**

- TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.15, no.2, 2018 (SCI-Expanded)
- LXXVII. **Flow and heat due to a surface formed by a vortical source**
TÜRKYILMAZOĞLU M.
EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.68, pp.76-84, 2018 (SCI-Expanded)
- LXXVIII. **Unsteady flow over a decelerating rotating sphere**
TÜRKYILMAZOĞLU M.
PHYSICS OF FLUIDS, vol.30, no.3, 2018 (SCI-Expanded)
- LXXIX. **Heat transfer from moving exponential fins exposed to heat generation**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.116, pp.346-351, 2018 (SCI-Expanded)
- LXXX. **A reliable convergent Adomian decomposition method for heat transfer through extended surfaces**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.28, no.11, pp.2551-2566, 2018 (SCI-Expanded)
- LXXXI. **Parametrized Adomian Decomposition Method with Optimum Convergence**
TÜRKYILMAZOĞLU M.
ACM TRANSACTIONS ON MODELING AND COMPUTER SIMULATION, vol.27, no.4, 2017 (SCI-Expanded)
- LXXXII. **Solution of Initial and Boundary Value Problems by an Effective Accurate Method**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.14, no.6, 2017 (SCI-Expanded)
- LXXXIII. **Condensation of laminar film over curved vertical walls using single and two-phase nanofluid models**
TÜRKYILMAZOĞLU M.
EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.65, pp.184-191, 2017 (SCI-Expanded)
- LXXXIV. **Unsteady MHD rear stagnationpoint flow over off-centred deformable surfaces**
TÜRKYILMAZOĞLU M., Naganthran K., Pop I.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.27, no.7, pp.1554-1570, 2017 (SCI-Expanded)
- LXXXV. **Approximate Analytical Solution of the Nonlinear System of Differential Equations Having Asymptotically Stable Equilibrium**
TÜRKYILMAZOĞLU M.
FILOMAT, vol.31, no.9, pp.2633-2641, 2017 (SCI-Expanded)
- LXXXVI. **A direct solution of temperature field and physical quantities for the nonlinear porous fin problem**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.27, no.2, pp.516-529, 2017 (SCI-Expanded)
- LXXXVII. **Numerical study of nanofluid flow and heat transfer over a rotating disk using Buongiorno's model**
Khan J. A., Mustafa M., Hayat T., TÜRKYILMAZOĞLU M., Alsaedi A.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.27, no.1, pp.221-234, 2017 (SCI-Expanded)
- LXXXVIII. **Magnetohydrodynamic two-phase dusty fluid flow and heat model over deforming isothermal surfaces**
TÜRKYILMAZOĞLU M.
PHYSICS OF FLUIDS, vol.29, no.1, 2017 (SCI-Expanded)
- LXXXIX. **Algebraic solutions of flow and heat for some nanofluids over deformable and permeable surfaces**
TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.27, no.10, pp.2259-2267, 2017 (SCI-Expanded)
- XC. **Determination of the Correct Range of Physical Parameters in the Approximate Analytical Solutions of Nonlinear Equations Using the Adomian Decomposition Method**

TÜRKYILMAZOĞLU M.

MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.13, no.6, pp.4019-4037, 2016 (SCI-Expanded)

XCII. Flow of nanofluid plane wall jet and heat transfer

TÜRKYILMAZOĞLU M.

EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.59, pp.18-24, 2016 (SCI-Expanded)

XCIII. Magnetic Field and Slip Effects on the Flow and Heat Transfer of Stagnation Point Jeffrey Fluid over Deformable Surfaces

TÜRKYILMAZOĞLU M.

ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, vol.71, no.6, pp.549-556, 2016 (SCI-Expanded)

XCIV. Highly accurate analytic formulae for projectile motion subjected to quadratic drag

TÜRKYILMAZOĞLU M.

EUROPEAN JOURNAL OF PHYSICS, vol.37, no.3, 2016 (SCI-Expanded)

XCV. Heat transfer from warm water to a moving foot in a footbath

TÜRKYILMAZOĞLU M.

APPLIED THERMAL ENGINEERING, vol.98, pp.280-287, 2016 (SCI-Expanded)

XCVI. Performance of direct absorption solar collector with nanofluid mixture

TÜRKYILMAZOĞLU M.

ENERGY CONVERSION AND MANAGEMENT, vol.114, pp.1-10, 2016 (SCI-Expanded)

XCVII. Equivalences and correspondences between the deforming body induced flow and heat in two-three dimensions

TÜRKYILMAZOĞLU M.

PHYSICS OF FLUIDS, vol.28, no.4, 2016 (SCI-Expanded)

XCVIII. Flow and heat simultaneously induced by two stretchable rotating disks

TÜRKYILMAZOĞLU M.

PHYSICS OF FLUIDS, vol.28, no.4, 2016 (SCI-Expanded)

XCVIII. An Effective Approach for Evaluation of the Optimal Convergence Control Parameter in the Homotopy Analysis Method

TÜRKYILMAZOĞLU M.

FILOMAT, vol.30, no.6, pp.1633-1650, 2016 (SCI-Expanded)

XCIX. Convergent optimal variational iteration method and applications to heat and fluid flow problems

TÜRKYILMAZOĞLU M.

INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.26, pp.790-804, 2016 (SCI-Expanded)

C. Air blast response of compaction foam having a deformable front face panel incorporating fluid structure interactions

TÜRKYILMAZOĞLU M.

INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.105, pp.340-347, 2016 (SCI-Expanded)

CI. An analytical treatment for the exact solutions of MHD flow and heat over two-three dimensional deforming bodies

TÜRKYILMAZOĞLU M.

INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.90, pp.781-789, 2015 (SCI-Expanded)

CII. Exact Multiple Solutions for the Slip Flow and Heat Transfer in a Converging Channel

Turkyilmazoglu M.

JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.137, no.10, 2015 (SCI-Expanded)

CIII. Analytical solutions of single and multi-phase models for the condensation of nanofluid film flow and heat transfer

Turkyilmazoglu M.

EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, vol.53, pp.272-277, 2015 (SCI-Expanded)

CIV. Slip flow and heat transfer over a specific wedge: an exactly solvable Falkner-Skan equation

Turkyilmazoglu M.

- JOURNAL OF ENGINEERING MATHEMATICS, vol.92, no.1, pp.73-81, 2015 (SCI-Expanded)
- CV. **Anomalous heat transfer enhancement by slip due to nanofluids in circular concentric pipes**
Turkyilmazoglu M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.85, pp.609-614, 2015 (SCI-Expanded)
- CVI. **A Note on the Correspondence Between Certain Nanofluid Flows and Standard Fluid Flows**
Turkyilmazoglu M.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.137, no.2, 2015 (SCI-Expanded)
- CVII. **Bodewadt flow and heat transfer over a stretching stationary disk**
Turkyilmazoglu M.
INTERNATIONAL JOURNAL OF MECHANICAL SCIENCES, vol.90, pp.246-250, 2015 (SCI-Expanded)
- CVIII. **Extending the traditional Jeffery-Hamel flow to stretchable convergent/divergent channels**
Turkyilmazoglu M.
COMPUTERS & FLUIDS, vol.100, pp.196-203, 2014 (SCI-Expanded)
- CIX. **Effective Computation of Solutions for Nonlinear Heat Transfer Problems in Fins**
Turkyilmazoglu M.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.136, no.9, 2014 (SCI-Expanded)
- CX. **A note on the exact temperatures of free two-dimensional and circular jets**
Turkyilmazoglu M.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.129, no.6, 2014 (SCI-Expanded)
- CXI. **Nanofluid flow and heat transfer due to a rotating disk**
Turkyilmazoglu M.
COMPUTERS & FLUIDS, vol.94, pp.139-146, 2014 (SCI-Expanded)
- CXII. **MHD fluid flow and heat transfer due to a shrinking rotating disk**
Turkyilmazoglu M.
COMPUTERS & FLUIDS, vol.90, pp.51-56, 2014 (SCI-Expanded)
- CXIII. **Lie group analysis of flow and heat transfer over a stretching rotating disk**
Asghar S., Jalil M., Hussan M., TÜRKYILMAZOĞLU M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.69, pp.140-146, 2014 (SCI-Expanded)
- CXIV. **Three dimensional MHD stagnation flow due to a stretchable rotating disk**
Turkyilmazoglu M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.55, pp.6959-6965, 2012 (SCI-Expanded)
- CXV. **Multiple Analytic Solutions of Heat and Mass Transfer of Magnetohydrodynamic Slip Flow for Two Types of Viscoelastic Fluids Over a Stretching Surface**
Turkyilmazoglu M.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.134, no.7, 2012 (SCI-Expanded)
- CXVI. **MHD fluid flow and heat transfer with varying Prandtl numbers due to a rotating disk subject to a uniform radial electric field (Retracted article. See vol. 140, pg. 830. 2018)**
Turkyilmazoglu M.
APPLIED THERMAL ENGINEERING, vol.35, pp.127-133, 2012 (SCI-Expanded)
- CXVII. **Effects of uniform radial electric field on the MHD heat and fluid flow due to a rotating disk (Retracted article. See vol. 140, pg. 830, 2018)**
Turkyilmazoglu M.
INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE, vol.51, pp.233-240, 2012 (SCI-Expanded)
- CXVIII. **MHD fluid flow and heat transfer due to a stretching rotating disk**
Turkyilmazoglu M.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.51, pp.195-201, 2012 (SCI-Expanded)
- CXIX. **AN IMPLICIT SPECTRAL METHOD FOR THE NUMERICAL SOLUTION OF UNSTEADY FLOWS WITH AN APPLICATION TO ROTATING DISK FLOW AND HEAT TRANSFER**
Turkyilmazoglu M.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.32, no.2, pp.99-106, 2012 (SCI-Expanded)

- CXX. **Effects of Partial Slip on the Analytic Heat and Mass Transfer for the Incompressible Viscous Fluid of a Porous Rotating Disk Flow**
Turkyilmazoglu M.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.133, no.12, 2011 (SCI-Expanded)
- CXXI. **An Optimal Analytic Approximate Solution for the Limit Cycle of Duffing-van der Pol Equation**
Turkyilmazoglu M.
JOURNAL OF APPLIED MECHANICS-TRANSACTIONS OF THE ASME, vol.78, no.2, 2011 (SCI-Expanded)
- CXXII. **Heat and Mass Transfer on the MHD Fluid Flow Due to a Porous Rotating Disk With Hall Current and Variable Properties**
Turkyilmazoglu M.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.133, no.2, 2011 (SCI-Expanded)
- CXXIII. **Heat and Mass Transfer on the Unsteady Magnetohydrodynamic Flow Due to a Porous Rotating Disk Subject to a Uniform Outer Radial Flow**
Turkyilmazoglu M.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.132, no.6, 2010 (SCI-Expanded)
- CXXIV. **NUMERICAL COMPUTATION OF UNSTEADY FLOWS WITH AN IMPLICIT SPECTRAL METHOD OVER A DISK IN STILL AIR**
Turkyilmazoglu M.
NUMERICAL HEAT TRANSFER PART A-APPLICATIONS, vol.57, no.1, pp.40-53, 2010 (SCI-Expanded)
- CXXV. **Exact Solutions Corresponding to the Viscous Incompressible and Conducting Fluid Flow Due to a Porous Rotating Disk**
Turkyilmazoglu M.
JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME, vol.131, no.9, 2009 (SCI-Expanded)

Books & Book Chapters

- I. **A Convergence Condition of the Homotopy Analysis Method**
TÜRKYILMAZOĞLU M.
in: ADVANCES IN THE HOMOTOPY ANALYSIS METHOD, Shijun Liao, Editor, World Scientific Publishing , pp.5, 2014

Refereed Congress / Symposium Publications in Proceedings

- I. **Exact solutions of flow and heat over a long cylinder with diverse physical mechanisms**
TÜRKYILMAZOĞLU M.
10th International Fundamental Science Congress, 23 - 24 October 2018
- II. **Optimum Adomian Decomposition Method**
TÜRKYILMAZOĞLU M.
7th International Conference on Recent Developments in Fluid Mechanics and Environmental Sciences, 13 - 15 February 2018
- III. **Parametrized Adomian decomposition method with optimum convergence**
TÜRKYILMAZOĞLU M.
CASAM International Conference on Mathematics and Applications 2017 (CICMA 2017), Multan, Pakistan, 6 - 07 November 2017

Supported Projects

TÜRKYILMAZOĞLU M., Project Supported by Higher Education Institutions, Optimum yakınsamalı parametre içeren Adomian Ayrıştırma Metodu, 2017 - 2017

TÜRKYILMAZOĞLU M., Project Supported by Higher Education Institutions, Lineer Olmayan Sistem denklemlerinin Homotopi yöntemi ile çözümü, 2016 - 2017

TÜRKYILMAZOĞLU M., Project Supported by Higher Education Institutions, Püskürtmeli ısı geçiren plakanın ısı transferi analizi, 2016 - 2017

TÜRKYILMAZOĞLU M., Project Supported by Higher Education Institutions, Akışkanlar Mekaniğindeki Güncel Gelişmeler Üzerine 6. Uluslararası Konferans, 2015 - 2016

Metrics

Publication: 129

Citation (WoS): 1776

Citation (Scopus): 185

H-Index (WoS): 24

H-Index (Scopus): 6

Non Academic Experience

HACETTEPE ÜNİVERSİTESİ

HACETTEPE ÜNİVERSİTESİ

HACETTEPE ÜNİVERSİTESİ