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Doktora, Fen, Matematik, Birleşik Krallık 1994 - 1998

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

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

Araştırma Alanları

Matematik, Bilgisayar Bilimleri, Diferansiyel denklemler, Yaklaşımlar ve Açılımlar, Temel Bilimler

Akademik İdari Deneyim

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

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

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

Yönetilen Tezler

TÜRKYILMAZOĞLU M., Dönen akışkanlar ve bazı uygulamaları, Yüksek Lisans, P.ŞENEL(Öğrenci), 2012

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. Long wavelength analysis amendment on the cilia beating assisted peristalsis in a tube
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- II. **Rheology of Bingham viscoplastic flow triggered by a rotating and radially stretching disk**
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- III. **Exact momentum layer and thermal field solutions for the fluid flow due to a moving/deforming Riga plate**
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- IV. **Slip flow between corotating disks with heat transfer**
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- V. **The operational matrices methods for solving the Poisson equation with nonlocal boundary conditions**
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- VI. **Fluid flow between two active**
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- VII. **Soret and Dufour effects for unsteady flow with shapes and $(\text{Cu}+\text{Fe})_3\text{O}_4$ /(ethelene-glycol plus methanol) between two stretchable rotating disks**
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- VIII. **Two Models on the Unsteady Heat and Fluid Flow Induced by Stretching or Shrinking Sheets and Novel Time-Dependent Solutions**
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- IX. **Evidence of stretching/moving sheet-triggered nonlinear similarity flows: atomization and electrospinning with/without air resistance**
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- X. **Fluid motion in a cavity driven by a four-sided moving lid with uniform velocity**
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- XI. **Buckling phenomenon of vertical beam/column of variable density carrying a top mass**
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- XII. **Uniformly Loaded Logarithmic Beam Mode with Spatially Varying Flexural Rigidity**
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- XIII. **Corrections to long wavelength approximation of peristalsis viscous fluid flow within a wavy channel**
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- XIV. **Flow and heat transfer in annuli owing to inner shrinking and outer stationary cylinder**
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- XV. **Darcy–Brinkman porous medium for dusty fluid flow with steady boundary layer flow in the presence of slip effect**
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- XVI. **Unsteady Fluid Flow in a Darcy–Brinkman Porous Medium with Slip Effect and Porous Dissipation**
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- XVII. **Liquid Vortex Formation in a Swirling Container Considering Fractional Time Derivative of Caputo**
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- XVIII. **Effects of multiple shapes for steady flow with transformer oil+Fe₃O₄+TiO₂ between two stretchable rotating disks**
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- XIX. **RELIABLE COMPUTATIONAL METHODS FOR SOLVING JEFFERY-HAMEL FLOW PROBLEM BASED ON POLYNOMIAL FUNCTION SPACES**
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- XX. **Generalized vortex flow of nanoparticle shapes over a permeable disc surface with generalized slip conditions**
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- XXI. **Film Flow of Nano-Micropolar Fluid with Dissipation Effect**
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- XXII. **Generalized mean state of the isothermal Darcy–Benard problem and its instability onset**
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- XXIII. **Advective flow in a magnetized layer of fluid between hydro-thermal slippery parallel walls**
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- XXIV. **On heat transfer with unsteady MHD nanofluid von Karman flow with uniform suction**
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- XXV. **Darcy–Benard convection through a uniformly permeable porous slab**
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- XXVI. **Impact of multiple shapes on Al₂O₃–Cu/ H₂O–C₂H₆O₂ towards a permeable surface of cylinder**
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- XXVII. **Hyperthermia therapy of cancerous tumor sitting in breast via analytical fractional model**
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- XXVIII. **A highly accurate peak time formula of epidemic outbreak from the SIR model**
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- XXXI. **Towards an approximate solution of highly viscous electro-osmotic flows in inclined Channel: Applications in petroleum and gas engineering**
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- XXXV. **The flow and heat in the conical region of a rotating cone and an expanding disk**
TÜRKYILMAZOĞLU M.
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- XXXVIII. **Transient and passage to steady state in fluid flow and heat transfer within fractional models**
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- XLI. **Prescribed Temperature Profiles of Longitudinal Convective-Radiative Fins Subject to Axially Distributed Thermal Conductivities**
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- XLV. **Lid-Driven Butterfly Cavity for a Controllable Viscous Flow**
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- XLVII. **A restricted epidemic SIR model with elementary solutions**
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- XLVIII. **Driven flow motion by a dually moving lid of a square cavity**
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- L. **Exponential nonuniform wall heating of a square cavity and natural convection**
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- LI. **Flow and heat over a rotating disk subject to a uniform horizontal magnetic field**
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ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, cilt.77, ss.329-337, 2022 (SCI-Expanded)
- LII. **Asymptotic Suction/Injection Flow Induced by a Uniform Magnetohydrodynamics Free Stream Couple Stress Fluid Over a Flat Plate**
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- LIII. **Slit flow and thermal analysis of micropolar fluids in a symmetric channel with dynamic and permeable**
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- LIV. **Thermal performance of optimum exponential fin profiles subjected to a temperature jump**
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- LV. **MULTIPLE EXACT SOLUTIONS OF FREE CONVECTION FLOWS IN SATURATED POROUS MEDIA WITH VARIABLE HEAT FLUX**
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- LVI. **An Efficient Computational Method for Differential Equations of Fractional Type**
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- LVII. **Maximum wave run-up over beaches of convex/concave bottom profiles**
TÜRKYLMAZOĞLU M.
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- LVIII. **Explicit formulae for the peak time of an epidemic from the SIR model. Which approximant to use?**
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- LIX. **Heat absorption due to falling film with imposed uniform mass fraction at the wall**

- TÜRKYILMAZOĞLU M.
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- LX. **Heat Transfer Enhancement Feature of the Non-Fourier Cattaneo-Christov Heat Flux Model**
TÜRKYILMAZOĞLU M.
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- LXI. **An analytic parametric study of rounded laser pulse heating**
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- LXII. **Explicit formulae for the peak time of an epidemic from the SIR model**
TÜRKYILMAZOĞLU M.
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- LXIII. **Stagnation-point flow and heat transfer over stretchable plates and cylinders with an oncoming flow: Exact solutions**
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- LXIV. **Heat transport in shear-driven flow with axial conduction**
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- LXV. **Exact solutions concerning momentum and thermal fields induced by a long circular cylinder**
TÜRKYILMAZOĞLU M.
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- LXVI. **On the transparent effects of Buongiorno nanofluid model on heat and mass transfer**
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- LXVII. **Threshold for the generalized Non-Fourier heat flux model: Universal closed form analytic solution**
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- LXVIII. **Complete theory of the elastic wall jet: A new flow geometry with revisited two-phase nanofluids**
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- LXIX. **Magnetohydrodynamic Moving Liquid Plug Within a Microchannel: Analytical Solutions**
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- LXX. **Nonlinear Problems via a Convergence Accelerated Decomposition Method of Adomian**
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- LXXI. **On the fluid flow and heat transfer between a cone and a disk both stationary or rotating**
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- LXXII. **Nanoliquid film flow due to a moving substrate and heat transfer**
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- LXXIII. **An optimum profile of a special pin fin: full solutions**
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- LXXIV. **Velocity Slip and Entropy Generation Phenomena in Thermal Transport Through Metallic Porous Channel**
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- LXXV. **Exact and approximate solutions to projectile motion in air incorporating Magnus effect**

- TÜRKYILMAZOĞLU M., Altundag T.
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- LXXVI. **Single phase nanofluids in fluid mechanics and their hydrodynamic linear stability analysis**
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- LXXVII. **Natural convection in the ferrofluid enclosed in a porous and permeable cavity**
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- LXXVIII. **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.
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- LXXIX. **A simple algorithm for high order Newton iteration formulae and some new variants**
TÜRKYILMAZOĞLU M.
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- LXXX. **Cooling of Particulate Solids and Fluid in a Moving Bed Heat Exchanger**
TÜRKYILMAZOĞLU M.
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- LXXXI. **Fully developed slip flow in a concentric annuli via single and dual phase nanofluids models**
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- LXXXII. **Free and circular jets cooled by single phase nanofluids**
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- LXXXIII. **A New Theoretical Approach of Wall Transpiration in the Cavity Flow of the Ferrofluids**
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- LXXXIV. **Accelerating the convergence of Adomian decomposition method (ADM)**
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- LXXXV. **Equivalence of Ratio and Residual Approaches in the Homotopy Analysis Method and Some Applications in Nonlinear Science and Engineering**
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- LXXXVI. **A Note on the Induced Flow and Heat Transfer Due to a Deforming Cone Rotating in a Quiescent Fluid**
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- LXXXVII. **Buongiorno model in a nanofluid filled asymmetric channel fulfilling zero net particle flux at the walls**
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- LXXXVIII. **Analytical solutions to mixed convection MHD fluid flow induced by a nonlinearly deforming permeable surface**
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- LXXXIX. **Fluid flow and heat transfer over a rotating and vertically moving disk**
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- XC. **Stefan problems for moving phase change materials and multiple solutions**

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- XC1. **Hyperbolic Partial Differential Equations with Nonlocal Mixed Boundary Values and their Analytic Approximate Solutions**
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- XCII. **Unsteady flow over a decelerating rotating sphere**
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- XCv. **Heat transfer from moving exponential fins exposed to heat generation**
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- XCvI. **Solution of Initial and Boundary Value Problems by an Effective Accurate Method**
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