

Prof.Dr. MÜNEVVER TEZER

Kişisel Bilgiler

İş Telefonu: [+90 312 210 5376](tel:+903122105376)

Fax Telefonu: [+90 0312 210 2970](tel:+9003122102970)

E-posta: munt@metu.edu.tr

Web: <https://Department of Mathematics Middle East Technical University, 06800, Ankara, TURKEY>

Posta Adresi: Department of Mathematics Middle East Technical University, 06800, Ankara, TURKEY

Eğitim Bilgileri

Doktora, The University of Calgary, Department Of Mathematics And Statistics, Kanada 1978 - 1983

Yüksek Lisans, University of Saskatchewan, Department Of Mathematics, Kanada 1976 - 1978

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1974 - 1976

Lisans, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1970 - 1974

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Some Mixed Boundary Value Problems in Magnetohydrodynamics, The University of Calgary, Department Of Mathematics And Statistics, 1983

Yüksek Lisans, The Numerical Solution of the Navier-Stokes Equations using FEM, University of Saskatchewan, Department Of Mathematics, 1978

Yüksek Lisans, Finite Element Formulation and Programming Aspects of Navier-Stokes Equations, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1976

Araştırma Alanları

Matematik, Sayısal Analiz, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2018 - Devam Ediyor

Prof.Dr., Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1993 - 2018

Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1987 - 1993

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1984 - 1987

Öğretim Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1983 - 1984

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1975 - 1976

Yönetilen Tezler

Tezer M., Finite difference method solution of magnetohydrodynamic flow in channels with electrically conducting and slipping walls, Yüksek Lisans, S.ARSLAN(Öğrenci), 2018

TEZER M., Radial basis function and dual reciprocity boundary element solutions of fluid dynamics problems, Doktora, M.GÜRBÜZ(Öğrenci), 2017

TEZER M., Numerical solutions of boundary value problems; applications in ferrohydrodynamics and magnetohydrodynamics, Doktora, P.ŞENEL(Öğrenci), 2017

TEZER M., DRBEM applications in fluid dynamics problems and DQM solutions of hyperbolic equations, Doktora, B.PEKMEN(Öğrenci), 2014

TEZER M., FEM solutions of magnetohydrodynamic and biomagnetic fluid flows in channels, Doktora, Ö.TÜRK(Öğrenci), 2014

TEZER M., The dual reciprocity boundary element solution of Helmholtz-type equations in fluid dynamics, Doktora, N.ALSOY(Öğrenci), 2013

TEZER M., Application of the boundary element method to parabolic type equations, Doktora, N.BOZKAYA(Öğrenci), 2010

TEZER M., The dual reciprocity boundary element method solution of fluid flow problems, Doktora, S.GÜMGÜM(Öğrenci), 2010

TEZER M., Numerical solution of nonlinear reaction-diffusion and wave equations, Doktora, G.MERAL(Öğrenci), 2009

TEZER M., The finite element method over a simple stabilizing grid applied to fluid flow problems, Doktora, S.HAN(Öğrenci), 2008

TEZER M., Boundary element method solution of initial and boundary value problems in fluid dynamics and magnetohydrodynamics, Doktora, C.BOZKAYA(Öğrenci), 2008

TEZER M., The finite element method solution of reaction-diffusion-advection equations in air pollution, Yüksek Lisans, Ö.TÜRK(Öğrenci), 2008

TEZER M., A boundary element formulation for axi-symmetric problems in poro-elasticity, Doktora, M.HAMİT(Öğrenci), 2006

TEZER M., Solution of helmholtz-type equations by differential quadrature method, Yüksek Lisans, G.KURUŞ(Öğrenci), 2004

TEZER M., Daul reciprocity boundary element method for time-dependent diffusion equation, Yüksek Lisans, S.GÜMGÜM(Öğrenci), 2003

TEZER M., Differential quadrature method for time-dependent diffusion equation, Yüksek Lisans, M.AKMAN(Öğrenci), 2003

TEZER M., Numerical methods for solving two-point boundary value problems, Yüksek Lisans, M.KHADRA(Öğrenci), 2002

TEZER M., Boundary element solution of magnetohydrodynamic flow, Yüksek Lisans, C.ERDÖNMEZ(Öğrenci), 2001

TEZER M., Evaluation of infinite integrals involving bessel functions of arbitrary order, Yüksek Lisans, Y.ASU(Öğrenci), 2000

TEZER M., A Two-step jacobi-type iterative method for solving linear systems, Yüksek Lisans, F.ERDAL(Öğrenci), 2000

TEZER M., Dual reciprocity boundary element method for Poisson's equations using osculatory radial basis functions, Yüksek Lisans, S.HAN(Öğrenci), 2000

TEZER M., New fast algorithms for polynomial interpolation and evaluation on the chebyshev node set, Yüksek Lisans, A.DELİCEOĞLU(Öğrenci), 2000

TEZER M., Correlation attack on stream ciphers, Yüksek Lisans, F.BİRİNCİ(Öğrenci), 1998

TEZER M., Finite elementsolution of navier-stokes equations in terms of velocity and pressure, Yüksek Lisans, Y.ŞAHİN(Öğrenci), 1994

TEZER M., Finite element solution of Navier-stokes equations in terms of velocity and vorticity, Yüksek Lisans, R.SEYEDİ(Öğrenci), 1993

TEZER M., Numerical solutions for the navier-stokes equations in primitive variables using finite-difference method, Yüksek Lisans, R.OMARİ(Öğrenci), 1990

TEZER M., Finite element penalty solution of the stokes equations, Yüksek Lisans, R.EİD(Öğrenci), 1988

TEZER M., Finite element solution of magnetohydrodynamic flow equations, Yüksek Lisans, S.KÖKSAL(Öğrenci), 1987

TEZER M., A Penalty finite element method for the solution of navier stokes equations, Yüksek Lisans, T.OMAR(Öğrenci), 1987

Jüri Üyelikleri

Tez Savunma (Doktora), Tez Savunma (Doktora), Muğla Sıtkı Koçman Üniversitesi, Haziran, 2018

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Exact and FDM solutions of 1D MHD flow between parallel electrically conducting and slipping plates**
ARSLAN S., Tezer-Sezgin M.
ADVANCES IN COMPUTATIONAL MATHEMATICS, cilt.45, ss.1923-1938, 2019 (SCI İndekslerine Giren Dergi)
- **Stabilizing subgrid FEM solution of the natural convection flow under high magnitude magnetic field on sinusoidal corrugated enclosure**
AYDIN S. H. , Tezer-Sezgin M.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.97, ss.420-430, 2019 (SCI İndekslerine Giren Dergi)
- **Semi-analytical solution of MHD flow through boundary integrals on the pipe wall**
Tezer-Sezgin M., Bozkaya C.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.42, ss.2404-2416, 2019 (SCI İndekslerine Giren Dergi)
- **MHD flow in a rectangular duct with a perturbed boundary**
Fendoglu H., Bozkaya C., Tezer-Sezgin M.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, cilt.77, ss.374-388, 2019 (SCI İndekslerine Giren Dergi)
- **NUMERICAL STABILITY OF RBF APPROXIMATION FOR UNSTEADY MHD FLOW EQUATIONS**
Gurbuz M., Tezer-Sezgin M.
APPLIED AND COMPUTATIONAL MATHEMATICS, cilt.18, ss.123-134, 2019 (SCI İndekslerine Giren Dergi)
- **Determining the optimal parameters for the MHD flow and heat transfer with variable viscosity and Hall effect**
EVCİN C., UĞUR Ö., Tezer-Sezgin M.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, cilt.76, ss.1338-1355, 2018 (SCI İndekslerine Giren Dergi)
- **DBEM and DRBEM solutions to 2D transient convection-diffusion-reaction type equations**
Fendoglu H., BOZKAYA C., Tezer-Sezgin M.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, cilt.93, ss.124-134, 2018 (SCI İndekslerine Giren Dergi)
- **DRBEM solution of the Cauchy MHD duct flow with a slipping perturbed boundary**
Aydin C., Tezer-Sezgin M.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, cilt.93, ss.94-104, 2018 (SCI İndekslerine Giren Dergi)
- **MHD Stokes flow and heat transfer in a lid-driven square cavity under horizontal magnetic field**
Gurbuz M., Tezer-Sezgin M.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.41, ss.2350-2359, 2018 (SCI İndekslerine Giren Dergi)
- **MHD convection flow in a constricted channel**
TEZER M., Gurbuz M.
ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, cilt.26, ss.267-283, 2018 (SCI İndekslerine Giren Dergi)
- **Convective Flow of Blood in Square and Circular Cavities**
Senel P., TEZER M.
ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, cilt.26, ss.209-230, 2018 (SCI İndekslerine Giren Dergi)
- **Pipe flow of a magnetizable fluid in rectangular cavities under magnetic sources**
Senel P., TEZER M.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, cilt.83, ss.55-66, 2017 (SCI İndekslerine Giren Dergi)
- **DRBEM solution of biomagnetic fluid flow and heat transfer in cavities-CMMSE2016**
Senel P., TEZER M.
JOURNAL OF MATHEMATICAL CHEMISTRY, cilt.55, ss.1407-1426, 2017 (SCI İndekslerine Giren Dergi)
- **FEM solution to natural convection flow of a micropolar nanofluid in the presence of a magnetic field**
TÜRK Ö., Tezer-Sezgin M.
MECCANICA, cilt.52, ss.889-901, 2017 (SCI İndekslerine Giren Dergi)
- **DRBEM solutions of Stokes and Navier-Stokes equations in cavities under point source magnetic field**

Senel P., TEZER M.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, cilt.64, ss.158-175, 2016 (SCI İndekslerine Giren Dergi)

- **DRBEM solution of natural convective heat transfer with a non-Darcy model in a porous medium**

Pekmen B., TEZER M.

JOURNAL OF MATHEMATICAL CHEMISTRY, cilt.53, ss.911-924, 2015 (SCI İndekslerine Giren Dergi)

- **DRBEM Solution of MHD Flow with Magnetic Induction and Heat Transfer**

Pekmen B., Tezer-Sezgin M.

CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, cilt.105, ss.183-207, 2015 (SCI İndekslerine Giren Dergi)

- **Free-Space Fundamental Solution of a 2D Steady Slow Viscous MHD Flow**

Sellier A., AYDIN S. H. , Tezer-Sezgin M.

CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, cilt.102, ss.393-406, 2014 (SCI İndekslerine Giren Dergi)

- **A FEM approach to biomagnetic fluid flow in multiple stenosed channels**

Turk O., Bozkaya C., Tezer M.

COMPUTERS & FLUIDS, cilt.97, ss.40-51, 2014 (SCI İndekslerine Giren Dergi)

- **Numerical solution of buoyancy MHD flow with magnetic potential**

Pekmen B., TEZER M.

INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, cilt.71, ss.172-182, 2014 (SCI İndekslerine Giren Dergi)

- **Finite element study of biomagnetic fluid flow in a symmetrically stenosed channel**

Turk O., Tezer M., Bozkaya C.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.259, ss.760-770, 2014 (SCI İndekslerine Giren Dergi)

- **A DRBEM solution for MHD pipe flow in a conducting medium**

AYDIN S. H. , TEZER M.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.259, ss.720-729, 2014 (SCI İndekslerine Giren Dergi)

- **DRBEM solution of mixed convection flow of nanofluids in enclosures with moving walls**

Gumgum S., TEZER M.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.259, ss.730-740, 2014 (SCI İndekslerine Giren Dergi)

- **MHD flow and heat transfer in a lid-driven porous enclosure**

Pekmen B., TEZER M.

COMPUTERS & FLUIDS, cilt.89, ss.191-199, 2014 (SCI İndekslerine Giren Dergi)

- **DRBEM Solution of Incompressible MHD Flow with Magnetic Potential**

Pekmen B., Tezer-Sezgin M.

CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, cilt.96, ss.275-292, 2013 (SCI İndekslerine Giren Dergi)

- **BEM and FEM based numerical simulations for biomagnetic fluid flow**

Tezer M., Bozkaya C., Turk O.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, cilt.37, ss.1127-1135, 2013 (SCI İndekslerine Giren Dergi)

- **Chebyshev Spectral Collocation Method for Unsteady Mhd Flow and Heat Transfer of a Dusty Fluid Between Parallel Plates**

Turk O., Tezer-Sezgin M.

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- **BEM solution of MHD flow in a pipe coupled with magnetic induction of exterior region**

TEZER M., AYDIN S. H.

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- **DRBEM solution of the thermo-solutal buoyancy induced mixed convection flow problems**

Alsoy-Akgun N., TEZER M.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, cilt.37, ss.513-526, 2013 (SCI İndekslerine Giren Dergi)

- **DRBEM solution of free convection in porous enclosures under the effect of a magnetic field**

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- **FEM solution of natural convection flow in square enclosures under magnetic field**

Turk O., Tezer-Sezgin M.

INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, cilt.23, ss.844-866, 2013 (SCI İndekslerine Giren Dergi)

- **DRBEM and DQM solutions of natural convection flow in a cavity under a magnetic field**

Alsoy-Akgun N., TEZER M.

PROGRESS IN COMPUTATIONAL FLUID DYNAMICS, cilt.13, ss.270-284, 2013 (SCI İndekslerine Giren Dergi)

- **BEM solution to magnetohydrodynamic flow in a semi-infinite duct**

BOZKAYA C., Tezer-Sezgin M.

INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, cilt.70, ss.300-312, 2012 (SCI İndekslerine Giren Dergi)

- **A direct BEM solution to MHD flow in electrodynamically coupled rectangular channels**

BOZKAYA C., TEZER M.

COMPUTERS & FLUIDS, cilt.66, ss.177-182, 2012 (SCI İndekslerine Giren Dergi)

- **Differential quadrature solution of nonlinear Klein-Gordon and sine-Gordon equations**

Pekmen B., TEZER M.

COMPUTER PHYSICS COMMUNICATIONS, cilt.183, ss.1702-1713, 2012 (SCI İndekslerine Giren Dergi)

- **A numerical solution of the steady MHD flow through infinite strips with BEM**

BOZKAYA C., TEZER M.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, cilt.36, ss.591-599, 2012 (SCI İndekslerine Giren Dergi)

- **Differential Quadrature Solution of Hyperbolic Telegraph Equation**

Pekmen B., Tezer-Sezgin M.

JOURNAL OF APPLIED MATHEMATICS, 2012 (SCI İndekslerine Giren Dergi)

- **The DRBEM solution of incompressible MHD flow equations**

Bozkaya N., TEZER M.

INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, cilt.67, ss.1264-1282, 2011 (SCI İndekslerine Giren Dergi)

- **The comparison between the DRBEM and DQM solution of nonlinear reaction-diffusion equation**

MERAL G., TEZER M.

COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, cilt.16, ss.3990-4005, 2011 (SCI İndekslerine Giren Dergi)

- **The differential quadrature solution of nonlinear reaction-diffusion and wave equations using several time-integration schemes**

Meral G., TEZER M.

INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING, cilt.27, ss.485-497, 2011 (SCI İndekslerine Giren Dergi)

- **DRBEM solution of natural convection flow of nanofluids with a heat source**

Gumgum S., Tezer-Sezgin M.

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- **DRBEM solution of exterior nonlinear wave problem using FDM and LSM time integrations**

Meral G., Tezer-Sezgin M.

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- **Two-level finite element method with a stabilizing subgrid for the incompressible MHD equations**

AYDIN BAYRAM S., Nesliturk A. I. , Tezer-Sezgin M.

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• **DRBEM SOLUTION OF THE NATURAL CONVECTIVE FLOW OF MICROPOLAR FLUIDS**

Gumgum S., TEZER M.

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Dergi)

• **The boundary element solution of the magnetohydrodynamic flow in an infinite region**

TEZER M., BOZKAYA C.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.225, ss.510-521, 2009 (SCI İndekslerine

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• **Solution to transient Navier-Stokes equations by the coupling of differential quadrature time integration scheme with dual reciprocity boundary element method**

BOZKAYA C., TEZER M.

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• **Differential quadrature solution of nonlinear reaction-diffusion equation with relaxation-type time integration**

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Dergi)

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• **Time-domain BEM solution of convection-diffusion-type MHD equations**

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• **Boundary element method solution of magnetohydrodynamic flow in a rectangular duct with conducting walls parallel to applied magnetic field**

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• **Fundamental solution for coupled magnetohydrodynamic flow equations**

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• **Finite element method solution of electrically driven magnetohydrodynamic flow**

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• **Boundary element solution of unsteady magnetohydrodynamic duct flow with differential quadrature time integration scheme**

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• **Solution of magnetohydrodynamic flow problems using the boundary element method**

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• **The finite element method for MHD flow at high Hartmann numbers**

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- **Solution of magnetohydrodynamic flow in a rectangular duct by differential quadrature method**
Tezer-Sezgin M.
COMPUTERS & FLUIDS, cilt.33, ss.533-547, 2004 (SCI İndekslerine Giren Dergi)
- **Dual reciprocity boundary element method for magnetohydrodynamic flow using radial basis functions**
Tezer-Sezgin M., Aydin S.
INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS, cilt.16, ss.49-63, 2002 (SCI İndekslerine Giren Dergi)
- **BOUNDARY-ELEMENT METHOD SOLUTION OF MHD FLOW IN A RECTANGULAR DUCT**
TEZERSEZGIN M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, cilt.18, ss.937-952, 1994 (SCI İndekslerine Giren Dergi)
- **ON THE NUMERICAL EVALUATION OF AN OSCILLATING INFINITE SERIES-III**
SEZGIN M.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.35, ss.175-183, 1990 (SCI İndekslerine Giren Dergi)
- **ON THE NUMERICAL EVALUATION OF AN OSCILLATING INFINITE SERIES .2.**
SEZGIN M.
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- **FINITE-ELEMENT METHOD FOR SOLVING MHD FLOW IN A RECTANGULAR DUCT**
TEZERSEZGIN M., KOKSAL S.
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- **SOME INFINITE INTEGRALS INVOLVING PRODUCTS OF EXPONENTIAL AND BESSEL-FUNCTIONS**
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- **MAGNETOHYDRODYNAMIC FLOW ON A HALF-PLANE**
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INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, cilt.8, ss.705-722, 1988 (SCI İndekslerine Giren Dergi)
- **SIMULATION OF MHD POWER GENERATOR FLOW USING A SUPERCOMPUTER**
ARIEL P., AGGARWALA B., SEZGIN M.
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- **ELECTRICALLY DRIVEN FLOWS IN MHD WITH MIXED ELECTROMAGNETIC BOUNDARY-CONDITIONS**
SEZGIN M., AGGARWALA B., ARIEL P.
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- **MAGNETOHYDRODYNAMIC FLOW IN AN INFINITE CHANNEL**
SEZGIN M.
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Diğer Dergilerde Yayınlanan Makaleler

- **Numerical Solution and Stability Analysis of Transient MHD Duct Flow**
Tezer M., Gürbüz M.
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- **International conference on boundary element and meshless techniques XVII**
TEZER M., KARASÖZEN B.
EUROPEAN JOURNAL OF COMPUTATIONAL MECHANICS, cilt.26, ss.351-352, 2017 (ESCI İndekslerine Giren Dergi)
- **Magnetohydrodynamic pipe flow in annular-like domains**
BOZKAYA C., Tezer-Sezgin M.
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- **Natural convection flow of a nanofluid in an enclosure under an inclined uniform magnetic field**
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