Prof. MÜNEVVER TEZER

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Education Information

Doctorate, The University of Calgary, Department Of Mathematics And Statistics, Canada 1978 - 1983
Postgraduate, University of Saskatchewan, Department Of Mathematics, Canada 1976 - 1978
Postgraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 1974 - 1976
Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 1970 - 1974

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Some Mixed Boundary Value Problems in Magnetohydrodynamics, The University of Calgary, Department Of Mathematics And Statistics, 1983
Postgraduate, The Numerical Solution of the Navier-Stokes Equations using FEM, University of Saskatchewan, Department Of Mathematics, 1978
Postgraduate, Finite Element Formulation and Programming Aspects of Navier-Stokes Equations, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 1976

Research Areas

Mathematics, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2018 - Continues
Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 1993 - 2018
Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 1987 - 1993
Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 1984 - 1987
Lecturer PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 1983 - 1984
Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 1975 - 1976

Advising Theses

TEZER M., Bem solutions of magnetohydrodynamic flow equations under the time and axial-dependent magnetic field, Doctorate, E.EBREN(Student), 2021

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

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

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

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

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

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

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

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

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

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

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

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

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

TEZER M., Solution of helmholtz type equations by differential quadrature method, Postgraduate, G.KURUŞ(Student), 2004

TEZER M., Differential quadrature method for time-dependent diffusion equation, Postgraduate, M.AKMAN(Student), 2003

TEZER M., Dual reciprocity boundary element method for time-dependent diffusion equation, Postgraduate, S.Gümgüm(Student), 2003

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

TEZER M., Numerical methods for solving two-point boundary value problems., Postgraduate, M.KHADRA(Student), 2002

TEZER M., Boundary element solution of magnetohydrodynamic flow, Postgraduate, C.ERDÖNMEZ(Student), 2001

TEZER M., Evaluation of infinite integrals involving bessel functions of arbitrary order, Postgraduate, Y.ASU(Student), 2000

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

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

TEZER M., Dual reciprocity boundary element method for poisson's equation using osculatory radial basis functions, Postgraduate, S.Han(Student), 2000

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

TEZER M., Laplace equation solution using boundary element method, Postgraduate, E.Öğüt(Student), 1998

TEZER M., Correlation attack on stream ciphers., Postgraduate, F.BİRİNCİ(Student), 1998

TEZER M., Finite elementsolution of navier-stokes equations in terms of velocity and pressure, Postgraduate, Y.ŞAHİNER(Student), 1994

TEZER M., Finite element solution of navier-stekoes equations in terms of velocity and vorticity, Postgraduate, R.Seyedi(Student), 1993

TEZER M., Finite element solution of Navier-stokes equations in terms of velocity and vorticitiy, Postgraduate, R.SEYEDİ(Student), 1993

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

TEZER M., Finite element penalty solution of the stokes equations., Postgraduate, R.EİD(Student), 1988

TEZER M., Finite element solution of magnetohydrodynamic flow equations, Postgraduate, S.KÖKSAL(Student), 1987

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

TEZER M., A penalty finite element method for the solution of Navier-Stokes equations, Postgraduate, T.Omar(Student), 1987

Jury Memberships

Doctorate, Doctorate, Muğla Sıtkı Koçman Üniversitesi, June, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Time dependent magnetic field effects on the MHD flow and heat transfer in a rectangular duct**
TEZER M., TÜRK Ö.
ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK, 2024 (SCI-Expanded)

II. **Optimal placement of the multiple magnetic sources for the MHD flow in a rectangular duct**
Evcin C., Uğur Ö., Tezer M.
Optimization and Engineering, vol.24, no.4, pp.2855-2885, 2023 (SCI-Expanded)

III. **DRBEM solution of singularly perturbed coupled MHD flow equations**
ARSLAN ÖLÇER S., TEZER M.
Engineering Analysis with Boundary Elements, vol.155, pp.696-706, 2023 (SCI-Expanded)

IV. **Stabilized FEM solution of MHD duct flow with conducting cracks in the insulation**
TEZER M., AYDIN S. T.
Journal of Computational and Applied Mathematics, vol.423, 2023 (SCI-Expanded)

V. **Electrically Conducting Fluid Flow and Electric Potential in a Square Cavity Subjected to a Point Magnetic Source**
ŞENEL P., TEZER M.
International Journal of Computational Fluid Dynamics, vol.36, no.5, pp.424-439, 2022 (SCI-Expanded)

VI. **Convergence, stability, and numerical solution of unsteady free convection magnetohydrodynamical**

flow between two slipping plates

Arslan S., Tezer-Sezgin M.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.45, no.1, pp.21-35, 2022 (SCI-Expanded)

VII. **Time varying control of magnetohydrodynamic duct flow**

Evcin C., UĞUR Ö., Tezer-Sezgin M.

European Journal of Mechanics, B/Fluids, vol.89, pp.100-114, 2021 (SCI-Expanded)

VIII. **DRBEM Solution of MHD flow in a rectangular duct with time-varied external magnetic field**

EBREN KAYA E., Tezer-Sezgin M.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.117, pp.242-250, 2020 (SCI-Expanded)

IX. **Controlling the Power-Law Fluid Flow and Heat Transfer Under the External Magnetic Field Using the Flow Index and the Hartmann Number**

Evcin C., UĞUR Ö., Tezer-Sezgin M.

INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS, vol.17, no.3, 2020 (SCI-Expanded)

X. **FEM solution of MHD flow in an array of electromagnetically coupled rectangular ducts**

Tezer-Sezgin M., Aydin S. H.

PROGRESS IN COMPUTATIONAL FLUID DYNAMICS, vol.20, no.1, pp.40-50, 2020 (SCI-Expanded)

XI. **DRBEM solution to MHD flow in ducts with thin slipping side walls and separated by conducting thick Hartmann walls**

Senel P., Tezer-Sezgin M.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.78, no.9, pp.3165-3174, 2019 (SCI-Expanded)

XII. **Exact and FDM solutions of 1D MHD flow between parallel electrically conducting and slipping plates**

Arslan S., Tezer-Sezgin M.

ADVANCES IN COMPUTATIONAL MATHEMATICS, vol.45, no.4, pp.1923-1938, 2019 (SCI-Expanded)

XIII. **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, vol.97, pp.420-430, 2019 (SCI-Expanded)

XIV. **Semi-analytical solution of MHD flow through boundary integrals on the pipe wall**

Tezer-Sezgin M., Bozkaya C.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.42, no.7, pp.2404-2416, 2019 (SCI-Expanded)

XV. **MHD flow in a rectangular duct with a perturbed boundary**

Fendoglu H., Bozkaya C., Tezer-Sezgin M.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.77, no.2, pp.374-388, 2019 (SCI-Expanded)

XVI. **NUMERICAL STABILITY OF RBF APPROXIMATION FOR UNSTEADY MHD FLOW EQUATIONS**

Gurbuz M., Tezer-Sezgin M.

APPLIED AND COMPUTATIONAL MATHEMATICS, vol.18, no.2, pp.123-134, 2019 (SCI-Expanded)

XVII. **Determining the optimal parameters for the MHD flow and heat transfer with variable viscosity and Hall effect**

Evcin C., Uğur Ö., Tezer-Sezgin M.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.76, pp.1338-1355, 2018 (SCI-Expanded)

XVIII. **DBEM and DRBEM solutions to 2D transient convection-diffusion-reaction type equations**

Fendoglu H., BOZKAYA C., Tezer-Sezgin M.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.93, pp.124-134, 2018 (SCI-Expanded)

XIX. **DRBEM solution of the Cauchy MHD duct flow with a slipping perturbed boundary**

Aydin C., Tezer-Sezgin M.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.93, pp.94-104, 2018 (SCI-Expanded)

XX. **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, vol.41, no.6, pp.2350-2359, 2018 (SCI-Expanded)

XXI. **MHD convection flow in a constricted channel**

TEZER M., Gurbuz M.

ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, vol.26, no.2, pp.267-283, 2018 (SCI-Expanded)

XXII. **Convective Flow of Blood in Square and Circular Cavities**

Senel P., TEZER M.

ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, vol.26, no.2, pp.209-230, 2018 (SCI-Expanded)

XXIII. **Pipe flow of a magnetizable fluid in rectangular cavities under magnetic sources**

Senel P., TEZER M.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.83, pp.55-66, 2017 (SCI-Expanded)

XXIV. **DRBEM solution of biomagnetic fluid flow and heat transfer in cavities-CMMSE2016**

Senel P., TEZER M.

JOURNAL OF MATHEMATICAL CHEMISTRY, vol.55, no.7, pp.1407-1426, 2017 (SCI-Expanded)

XXV. **FEM solution to natural convection flow of a micropolar nanofluid in the presence of a magnetic field**

Türk Ö., Tezer-Sezgin M.

MECCANICA, vol.52, pp.889-901, 2017 (SCI-Expanded)

XXVI. **DRBEM solutions of Stokes and Navier-Stokes equations in cavities under point source magnetic field**

Senel P., TEZER M.

ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.64, pp.158-175, 2016 (SCI-Expanded)

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

Pekmen B., TEZER M.

JOURNAL OF MATHEMATICAL CHEMISTRY, vol.53, no.3, pp.911-924, 2015 (SCI-Expanded)

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

Pekmen B., Tezer-Sezgin M.

CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.105, no.3, pp.183-207, 2015 (SCI-Expanded)

XXIX. **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, vol.102, no.5, pp.393-406, 2014 (SCI-Expanded)

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

Turk Ö., Bozkaya C., Tezer M.

COMPUTERS & FLUIDS, vol.97, pp.40-51, 2014 (SCI-Expanded)

XXXI. **Numerical solution of buoyancy MHD flow with magnetic potential**

Pekmen B., TEZER M.

INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.71, pp.172-182, 2014 (SCI-Expanded)

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

AYDIN S. H., TEZER M.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.720-729, 2014 (SCI-Expanded)

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

Gumgum S., TEZER M.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.730-740, 2014 (SCI-Expanded)

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

Turk Ö., Tezer M., Bozkaya C.

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.259, pp.760-770, 2014 (SCI-Expanded)

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

Pekmen B., TEZER M.

COMPUTERS & FLUIDS, vol.89, pp.191-199, 2014 (SCI-Expanded)

XXXVI. **DRBEM Solution of Incompressible MHD Flow with Magnetic Potential**

Pekmen B., Tezer-Sezgin M.

CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.96, no.4, pp.275-292, 2013 (SCI-Expanded)

XXXVII. **BEM and FEM based numerical simulations for biomagnetic fluid flow**
Tezer M., Bozkaya C., Turk Ö.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.37, no.9, pp.1127-1135, 2013 (SCI-Expanded)

XXXVIII. **Chebyshev Spectral Collocation Method for Unsteady Mhd Flow and Heat Transfer of a Dusty Fluid Between Parallel Plates**
Turk Ö., Tezer-Sezgin M.
NUMERICAL HEAT TRANSFER PART A-APPLICATIONS, vol.64, no.7, pp.597-610, 2013 (SCI-Expanded)

XXXIX. **BEM solution of MHD flow in a pipe coupled with magnetic induction of exterior region**
TEZER M., AYDIN S. H.
COMPUTING, vol.95, no.1, 2013 (SCI-Expanded)

XL. **DRBEM solution of the thermo-solutal buoyancy induced mixed convection flow problems**
Alsoy-Akgun N., TEZER M.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.37, no.3, pp.513-526, 2013 (SCI-Expanded)

XLI. **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, vol.13, no.5, pp.270-284, 2013 (SCI-Expanded)

XLII. **FEM solution of natural convection flow in square enclosures under magnetic field**
Turk Ö., Tezer-Sezgin M.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.23, no.5, pp.844-866, 2013 (SCI-Expanded)

XLIII. **DRBEM solution of free convection in porous enclosures under the effect of a magnetic field**
Pekmen B., TEZER M.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.56, pp.454-468, 2013 (SCI-Expanded)

XLIV. **BEM solution to magnetohydrodynamic flow in a semi-infinite?duct**
BOZKAYA C., Tezer-Sezgin M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.70, no.3, pp.300-312, 2012 (SCI-Expanded)

XLV. **A direct BEM solution to MHD flow in electrodynamically coupled rectangular channels**
BOZKAYA C., TEZER M.
COMPUTERS & FLUIDS, vol.66, pp.177-182, 2012 (SCI-Expanded)

XLVI. **Differential quadrature solution of nonlinear Klein-Gordon and sine-Gordon equations**
Pekmen B., TEZER M.
COMPUTER PHYSICS COMMUNICATIONS, vol.183, no.8, pp.1702-1713, 2012 (SCI-Expanded)

XLVII. **A numerical solution of the steady MHD flow through infinite strips with BEM**
BOZKAYA C., TEZER M.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.36, no.4, pp.591-599, 2012 (SCI-Expanded)

XLVIII. **Differential Quadrature Solution of Hyperbolic Telegraph Equation**
Pekmen B., Tezer-Sezgin M.
JOURNAL OF APPLIED MATHEMATICS, 2012 (SCI-Expanded)

XLIX. **The DRBEM solution of incompressible MHD flow equations**
Bozkaya N., TEZER M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.67, no.10, pp.1264-1282, 2011 (SCI-Expanded)

L. **The comparison between the DRBEM and DQM solution of nonlinear reaction-diffusion equation**
MERAL G., TEZER M.
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.16, no.10, pp.3990-4005, 2011 (SCI-Expanded)

LI. **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, vol.27, no.4, pp.485-497, 2011 (SCI-Expanded)

LII. DRBEM solution of natural convection flow of nanofluids with a heat source
Gumgum S., Tezer-Sezgin M.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.34, no.8, pp.727-737, 2010 (SCI-Expanded)

LIII. DRBEM solution of exterior nonlinear wave problem using FDM and LSM time integrations
Meral G., Tezer-Sezgin M.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.34, no.6, pp.574-580, 2010 (SCI-Expanded)

LIV. Two-level finite element method with a stabilizing subgrid for the incompressible MHD equations
AYDIN BAYRAM S., Nesliturk A. I., Tezer-Sezgin M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.62, no.2, pp.188-210, 2010 (SCI-Expanded)

LV. DRBEM SOLUTION OF THE NATURAL CONVECTIVE FLOW OF MICROPOLAR FLUIDS
Gumgum S., TEZER M.
NUMERICAL HEAT TRANSFER PART A-APPLICATIONS, vol.57, no.10, pp.777-798, 2010 (SCI-Expanded)

LVI. The boundary element solution of the magnetohydrodynamic flow in an infinite region
TEZER M., BOZKAYA C.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.225, no.2, pp.510-521, 2009 (SCI-Expanded)

LVII. 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.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.59, no.2, pp.215-234, 2009 (SCI-Expanded)

LVIII. Differential quadrature solution of nonlinear reaction-diffusion equation with relaxation-type time
integration
Meral G., TEZER M.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.86, no.3, pp.451-463, 2009 (SCI-Expanded)

LIX. Two-level finite element method with a stabilizing subgrid for the incompressible Navier-Stokes
equations
NESLİTÜRK A. İ., AYDIN BAYRAM S., Tezer-Suzgin M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.58, no.5, pp.551-572, 2008 (SCI-Expanded)

LX. Time-domain BEM solution of convection-diffusion-type MHD equations
Bozkaya N., Tezer-Sezgin M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.56, no.11, pp.1969-1991, 2008 (SCI-
Expanded)

LXI. Boundary element method solution of magnetohydrodynamic flow in a rectangular duct with
conducting walls parallel to applied magnetic field
Tezer-Sezgin M., BOZKAYA C.
COMPUTATIONAL MECHANICS, vol.41, no.6, pp.769-775, 2008 (SCI-Expanded)

LXII. Fundamental solution for coupled magnetohydrodynamic flow equations
Bozkaya C., Tezer-Sezgin M.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.203, no.1, pp.125-144, 2007 (SCI-Expanded)

LXIII. Finite element method solution of electrically driven magnetohydrodynamic flow
Neslituark A., Tezer-Sezgin M.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.192, no.2, pp.339-352, 2006 (SCI-Expanded)

LXIV. Boundary element solution of unsteady magnetohydrodynamic duct flow with differential
quadrature time integration scheme
Bozkaya C., Tezer-Sezgin M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.51, no.5, pp.567-584, 2006 (SCI-Expanded)

LXV. Solution of magnetohydrodynamic flow problems using the boundary element method
Tezer-Sugin M., Aydin S. H.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.30, no.5, pp.411-418, 2006 (SCI-Expanded)

LXVI. The finite element method for MHD flow at high Hartmann numbers
Neslituark A., Tezer-Sezain M.
COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, vol.194, pp.1201-1224, 2005 (SCI-Expanded)

LXVII. **Solution of magnetohydrodynamic flow in a rectangular duct by differential quadrature method**
Tezer-Sezgin M.
COMPUTERS & FLUIDS, vol.33, no.4, pp.533-547, 2004 (SCI-Expanded)

LXVIII. **Dual reciprocity boundary element method for magnetohydrodynamic flow using radial basis functions**
Tezer-Sezgin M., Aydin S.
INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS, vol.16, no.1, pp.49-63, 2002 (SCI-Expanded)

LXIX. **BOUNDARY-ELEMENT METHOD SOLUTION OF MHD FLOW IN A RECTANGULAR DUCT**
TEZERSEZGIN M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.18, no.10, pp.937-952, 1994 (SCI-Expanded)

LXX. **ON THE NUMERICAL EVALUATION OF AN OSCILLATING INFINITE SERIES .2.**
SEZGIN M.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.33, pp.263-270, 1990 (SCI-Expanded)

LXXI. **ON THE NUMERICAL EVALUATION OF AN OSCILLATING INFINITE SERIES-III**
SEZGIN M.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.35, pp.175-183, 1990 (SCI-Expanded)

LXXII. **FINITE-ELEMENT METHOD FOR SOLVING MHD FLOW IN A RECTANGULAR DUCT**
TEZERSEZGIN M., KOKSAL S.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN ENGINEERING, vol.28, no.2, pp.445-459, 1989 (SCI-Expanded)

LXXIII. **SOME INFINITE INTEGRALS INVOLVING PRODUCTS OF EXPONENTIAL AND BESSEL-FUNCTIONS**
TEZER M.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.28, pp.207-217, 1989 (SCI-Expanded)

LXXIV. **MAGNETOHYDRODYNAMIC FLOW ON A HALF-PLANE**
SEZGIN M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.8, no.7, pp.743-758, 1988 (SCI-Expanded)

LXXV. **MAGNETOHYDRODYNAMIC FLOW IN ELECTRODYNAMICALLY COUPLED RECTANGULAR DUCTS**
SEZGIN M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.8, no.6, pp.705-722, 1988 (SCI-Expanded)

LXXVI. **ELECTRICALLY DRIVEN FLOWS IN MHD WITH MIXED ELECTROMAGNETIC BOUNDARY-CONDITIONS**
SEZGIN M., AGGARWALA B., ARIEL P.
ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.68, no.7, pp.267-280, 1988 (SCI-Expanded)

LXXVII. **SIMULATION OF MHD POWER GENERATOR FLOW USING A SUPERCOMPUTER**
ARIEL P., AGGARWALA B., SEZGIN M.
ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK, vol.68, no.10, pp.503-511, 1988 (SCI-Expanded)

LXXVIII. **MAGNETOHYDRODYNAMIC FLOW IN A RECTANGULAR DUCT**
SEZGIN M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.7, no.7, pp.697-718, 1987 (SCI-Expanded)

LXXIX. **MAGNETOHYDRODYNAMIC FLOW IN AN INFINITE CHANNEL**
SEZGIN M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol.6, no.9, pp.593-609, 1986 (SCI-Expanded)

Articles Published in Other Journals

I. **The Problem Parameters Effects on Transient Behavior of MHD Duct Flow**
Ebren Kaya E., Tezer-Sezgin M.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.27, no.2, pp.170-180, 2023 (Peer-Reviewed Journal)

II. **RBF SOLUTION OF MHD STOKES FLOW AND MHD FLOW IN A CONSTRICTED ENCLOSURE**
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II. **DRBEM solution of MHD flow and electric potential in arectangular pipe with a moving Lid**
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IX. **Numerical Modelling of MHd Convection Flow in Cavities**
Gürbüz M., Tezer M.
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X. **Stability of Unsteady MHD Flow in a Rectangular Duct**
Tezer M., Gürbüz M.
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XI. **The DRBEM slution of the Cauchy MHD Flow in a duct with one of the walls is slipping and variably conducting**
Aydın C., Tezer M.
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XII. **MHD flow in a rectangular duct with a perturbed boundary**
Fendoğlu H., Bozkaya C., Tezer M.
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XIII. **Solution of MHD Flow in an Array of Electromagnetically Coupled Rectangular Ducts**
Tezer M., Senel P.
20th Europian Conference on Mathematics for Industry (ECMI-2018), Budapest, Hungary, 18 - 22 June 2018, pp.369

XIV. **Solution of MHD Flow with BEM using Direct Radial Basis Function Interpolation**
Gürbüz M., Tezer M.
20th Europian Conference on Mathematics for Industry (ECMI-2018), Budapest, Hungary, 18 - 22 June 2018, pp.370

XV. **DRBEM Solution to MHD Flow in Ducts with Thin Slipping side Walls and Seperated by Conducting Thick walls**
Senel P., Tezer M.
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XVI. **Finite Difference Solution of 1D Magnetohydrodynamic Channel Flow with Slipping Walls**
Arslan S., Tezer M.
6th Europian Seminar on Computing-ESCO 2018, Plzen, Czech Republic, 3 - 08 June 2018, pp.9

XVII. **Optimal Control for the MHD Fow and Heat Transfer with Variable Viscosity in a Square Duct**
Evcin C., Uğur Ö., Tezer M.
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XVIII. **The stabilized FEM solution of the MHD flow in a rectangular duct with perturbed boundary**
Tezer M., Aydın S. H.
3rd nternational conference on computational mathematics and engineering sciences (CMES 2018), Girne, Cyprus (Kktc), 4 - 06 May 2018, pp.269

XIX. **Electrically driven MHD flow between two parallel slipping and partly conducting infinite plates**
TEZER M., ŞENEL P.
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XX. **DRBEM solution of MHD flow in pipes with partly insulated partly perfectly conducting slipping walls**
ŞENEL P., TEZER M.
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XXI. **DRBEM solutions of the direct and inverse formulations of cauchy problem for the magnetohydrodynamic duct flow**
AYDIN C., TEZER M.
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XXII. **Numerical stability of RBF approximation for unsteady MHD flow equations**
gürbüz m., TEZER M.
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XXIII. **MHD duct flow with slipping velocity on the Hartmann and side walls**
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XXIV. **FEM solution of MHD flow im rectangular ducts with different wall conductivities and slip conditions**
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XXV. **Numerical stability of RBF solution for unsteady full MHD flow equations**
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XXVI. **DRBEM solution of the cauchy problem for MHD rectangular duct flow**
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XXVII. **RBF Solution of Incompressible MHD Convection Flow in a Pipe**
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XXVIII. **DRBEM Solution of Biomagnetic Convection Flow in a Rectangular Pipe**
ŞENEL P., TEZER M.
11. Workshop on Mathematical Modeling of Environmental and Life Sciences Problems, Constanta, Romania, 12 - 16 October 2016, pp.27

XXIX. **MHD Convection Flow in a Constricted Channel**
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XXX. **DRBEM Solution of Biomagnetic Fluid Flow under a Point Source Magnetic Field**
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XXXII. **Flow in a square cavity with an obstacle under the influence of a non uniform magnetic field**
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XXXIII. **Numerical Solution to MHD pipe flow in annular like domains**
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XXXIV. **MHD Stokes Flowin a smoothly constricted rectangular enclosure**
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XXXV. **Boundary integral solution of MHD pipe flow**
TEZER M., BOZKAYA C.
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XXXVI. **A DRBEM Approach for the STOKES Eigenvalue Problem**
TEZER M., TÜRK Ö.
Inter. Conf. on Computational and Mathematical Methods in Science and Engineering, CMMSE 2016, Rota-Cadiz, Spain, 4 - 08 July 2016, pp.1210-1219

XXXVII. **Natural Convection MHD Stokes Flow in a Square Cavity**
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10th Pamir International Conference- Fundamental and Applied MHD, PAMIR 2016, Cagliari, Italy, 20 - 24 June 2016, pp.22-26

XXXIX. **BEM Solution of MHD flow in a semi infinite channel with variable wall conductivity**

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XL. **BEM Solution of MHD Flow in a Semi İnfinite Channel with Variable Wall Conductivity**

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XLI. **Semi theoretical solution of outer Neumann problem coupled with inner Dirichlet problem for MHD circular pipe flow**

TEZER M.

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XLII. **DRBEM Solution of MHD Flow and Electric Potential in a Rectangular Pipe with a Moving Lid**

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BOZKAYA C., TEZER M.

European Conference on Numerical Mathematics and Advanced Applications (ENUMATH), Ankara, Turkey, 14 - 18 September 2015, vol.112, pp.13-21

XLIV. **DRBEM solution of the double diffusive donvective flow**

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EuropeanConference on Numerical Mathematics and Advanced Applications-ENUMATH-2015, Ankara, Turkey, 14 - 18 September 2015

XLV. **A new boundary approach for the 2D viscous MHD flow about a solid particle**

Antonie S., AYDIN S. H., TEZER M.

ENUMATH 2015 Europan Conference on Numerical Mathematics and Advanced Applications, Ankara, Turkey, 14 - 18 September 2015, pp.95

XLVI. **DRBEM solution of natural convection flow of micropolar nanofluids**

GÜMGÜM S., TEZER M.

Tenth UK Conference on Boundary Integral Methods, Brighton, United Kingdom, 13 - 14 July 2015, pp.159-168

XLVII. **Lid driven cavity and backward facing step Stokes flow under an applied magnetic field**

merve g., TEZER M.

Tenth UK Conference on Boundary Integral Methods, Brighton, United Kingdom, 13 - 14 July 2015, pp.66-75

XLVIII. **Flow in a rectangular duct under the influence of the magnetic field**

ŞENEL P., TEZER M.

Tenth UK Conference on Boundary Integral Methods, Brighton, United Kingdom, 13 - 14 July 2015, pp.179-188

XLIX. **Stokes Flow in a lid driven rectangular duct under the influence of a point source magnetic field**

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L. **Two dimensional Stokes Flow of an electrically conducting fluid in a channel under uniform magnetic field**

Merve G., TEZER M.

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LI. **A new BEM approach for the slow 2D MHD flow about interacting solid particles**

Antonie S., Selçuk H. A., TEZER M.

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LII. **Natural Convection Flow of a nanofluid in an Enclosure under a uniform magnetic field**

TEZER M., BOZKAYA C., TÜRK Ö.

Advances in Boundary Element & and Meshless Techniques XVI, Valencia, Spain, 6 - 08 July 2015, vol.16, pp.138-143

LIII. **Çember Üzerinde Sınır Koşulları ile Bağlı Dış Neumann ve İç Dirichlet MHD Kanal Akış Probleminin Çözümü**

TEZER M.

10. Ankara Matematik Günleri, Ankara, Turkey, 11 - 12 June 2015

LIV. **MHD flow in rectangular ducts of partly conducting walls under an inclined magnetic field**
BOZKAYA C., TEZER M.
Advances in Boundary Element & MeshlessTechniques XV-BETEQ 2014, Floransa, Italy, 15 - 17 July 2014, pp.115-120

LV. **Biomagnetic fluid flow in a channel under the effect of a uniform localized magnetic field**
TÜRK Ö., BOZKAYA C., TEZER M.
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LVI. **Biofluidflow in a channel with stenosis**
TÜRK Ö., TEZER M., BOZKAYA C.
International Conference on Applied and Computational Mathematics, Ankara, Turkey, 3 - 06 October 2012, pp.87-88

LVII. **DRBEM Solution for Unsteady Natural Convection Flow in Primitive Variables with Fractional Step Time Advancement**
Sariaydin A., Tezer-Sezgin M.
9th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences, Vienna, Austria, 10 - 14 July 2012, vol.1493, pp.871-877

LVIII. **FEM solution to unsteady biomagnetic fluid flow in a channel**
TEZER M., TÜRK Ö., BOZKAYA C.
Mathematical Modeling and Computational Topics in Biosciences, Vietri sul Mare, Italy, 4 - 08 June 2012, pp.163-164

LIX. **Solution of Navier-Stokes Equations Using FEM with Stabilizing Subgrid**
TEZER M., AYDIN BAYRAM S., NESLİTÜRK A. İ.
8th European Conference on Numerical Mathematics and Advanced Applications (ENUMATH 2009), Uppsala, Sweden, 29 June - 03 July 2009, pp.875-882

LX. **FEM Solution of Diffusion-Convection-Reaction Equations in Air Pollution**
TÜRK Ö., TEZER M.
European Conference on Numerical Mathematics and Advanced Applications, ENUMATH 2009, Uppsala, Sweden, 29 June - 03 July 2009, pp.275

LXI. **Numerical solution of magnetohydrodynamic flow problems using the boundary element method**
Tezer-Sezgin M., Aydin S.
27th World Conference on Boundary Elements and Other Mesh Reduction Methods, Florida, United States Of America, 15 - 18 March 2005, vol.39, pp.453-461

Supported Projects

BOZKAYA C., TEZER M., FENDOĞLU H., Project Supported by Higher Education Institutions, Zamana bağlı magnetohidrodinamik akış probleminin pertürbe edilmiş sınıra sahip dikdörtgen kanal kesitinde sınır elemanları metodu ile çözümü, 2018 - 2019

TEZER M., BOZKAYA C., Project Supported by Higher Education Institutions, Silindirik kanal içerisinde magnetohidrodinamik akış probleminin teorik çözümü ve nümerik simülasyonu, 2016 - 2016

TEZER M., ŞENEL P., Project Supported by Higher Education Institutions, Magnetohidrodinamik (MHD)-Stokes Akışın Karşılıklı Sınır Elemanları Metodu (DRBEM) ile Nümerik Çözümü, 2015 - 2015

TEZER M., GÜRBÜZ M., Project Supported by Higher Education Institutions, Radyal Baz Fonksiyonları Yaklaşımı ile Manyetik Akış ve Elektrik Potansiyel Denklemlerinin Çözümü, 2015 - 2015

TEZER M., Pekmen B., Project Supported by Higher Education Institutions, Manyetik Potansiyel İçeren Manyeto-Konveksiyon Akışın Karşılıklı Sınır Elemanları Metodu ile Çözümü, 2013 - 2013

TEZER M., TÜRK Ö., Project Supported by Higher Education Institutions, İçinde Parçacıklar Bulunduran Sıvıların Zamana Bağımlı Magnetohidrodinamik Akışı Ve Isı Transferi., 2011 - 2011

TEZER M., Project Supported by Higher Education Institutions, Magnetohydrodynamic Flow İn An Electrodynamically Conducting Semi-İnfinite Strip, 2011 - 2011

TEZER M., TÜRK Ö., Project Supported by Higher Education Institutions, Numerical Solution Of Liquid Metal Magnetohydrodynamics(mhd) Flow With Heat Transfer., 2010 - 2010

Memberships / Tasks in Scientific Organizations

Association for Turkish Women in Maths, Member of Science Committee, 2012 - Continues

Metrics

Publication: 155
Citation (WoS): 976
Citation (Scopus): 1070
H-Index (WoS): 17
H-Index (Scopus): 18

Congress and Symposium Activities

7th International Conference on Mathematical Modeling in Physical Sciences, IC-MSQUARE, Working Group, Moscow, Russia, 2018

20th Europian Conference on Mathematics for Industry (ECMI-2018), Working Group, Budapest, Hungary, 2018

International Conference on Applied Mathematics in Engineering ICAME-2018, Working Group, Balıkesir, Turkey, 2018

3rd nternational conference on computational mathematics and engineering sciences (CMES 2018), Working Group, Girne, Cyprus (Kktc), 2018

Invited Talks

Recent Developments and Applications of Numerical Analysis, Seminar, Muğla Sıtkı Koçman Üniversitesi, Turkey, May 2018

Recent Developments and Applications of Numerical Analysis, Seminar, İzmir Ekonomi Üniversitesi, Turkey, April 2018

Awards

Gürbüz M., Tezer M., TÜBİTAK ULAKBİM YAYIN TEŞVİK Makale Ödülü, Tübitak , December 2018

Aydin C., Tezer M., TÜBİTAK ULAKBİM YAYIN TEŞVİK Makale Ödülü, Tübitak, December 2018

Evcin C., Uğur Ö., Tezer M., ODTÜ Geliştirme Vakfı Makale Ödülü, Odtü Geliştirme Vakfı, September 2018

Bozkaya C., Tezer M., Fendoğlu H., ODTU Gelistirme Vakfi Makale Odulu, Odtu Gelistirme Vakfi, June 2018

Aydın C., Tezer M., ODTÜ Geliştirme Vakfı Makale Ödülü, Odtü Geliştirme Vakfı, May 2018

Non Academic Experience

University of Victoria, Victoria, CANADA
İhsan Doğramacı Bilkent Üniversitesi
University of Darmstadt, Darmstadt, Germany