

## Res. Asst. SİNEM ARSLAN ÖLÇER

### Personal Information

Office Phone: [+90 312 210 5366](tel:+903122105366)

Fax Phone: [+90 312 210 2972](tel:+903122102972)

Email: [arsinem@metu.edu.tr](mailto:arsinem@metu.edu.tr)

Web: <https://avesis.metu.edu.tr/arsinem>

### International Researcher IDs

ScholarID: r0j5L6gAAAAJ

ORCID: 0000-0002-9065-749X

Publons / Web Of Science ResearcherID: AAZ-7633-2020

ScopusID: 57207717586

Yoksis Researcher ID: 273097

### Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2018 - Continues

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2016 - 2018

Undergraduate, Dokuz Eylul University, Faculty Of Science, Department Of Mathematics (English), Turkey 2011 - 2016

### Dissertations

Postgraduate, FINITE DIFFERENCE METHOD SOLUTION OF MAGNETOHYDRODYNAMIC FLOW IN CHANNELS WITH ELECTRICALLY CONDUCTING AND SLIPPING WALLS, Middle East Technical University, Graduate School of Natural and Applied Sciences, Graduate School of Natural and Applied Sciences, 2018

### Research Areas

Numerical Analysis

### Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Mathematics, 2017 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. 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)
- II. 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)

## Books & Book Chapters

I. **Finite Difference Solutions of 2D Magnetohydrodynamic Channel Flow in a Rectangular Duct**

ARSLAN S., Tezer M.

in: Numerical Mathematics and Advanced Applications ENUMATH 2019, Fred J. Vermolen, Cornelis Vuik, Editor, Springer, Cham, pp.63-71, 2021

## Refereed Congress / Symposium Publications in Proceedings

I. **Finite Difference Solutions of 2D Magnetohydrodynamic Channel Flow in a Rectangular Duct**

Arslan S., Tezer M.

European Numerical Mathematics and Advanced Applications Conference(ENUMATH), Eindhoven, Netherlands, 30 September - 04 October 2019

II. **Fdm solution of mhd flow in a rectangular duct with slipping and partly insulated partly conducting side walls**

ARSLAN S., Tezer-Sezgin M.

8th International Conference on Mathematical Modeling in Physical Sciences (ICMSQUARE), Bratislava, Slovakia, 26 - 29 August 2019, vol.1391

III. **Finite Difference Solutions of 1D Magnetohydrodynamic Channel Flow With Slipping Walls**

ARSLAN S., Tezer M.

European Seminar on Computing (ESCO), 3 - 08 June 2018

IV. **Finite Difference Solution of 1D Magnetohydrodynamic Channel Flow with Slipping Walls**

Arslan S., Tezer M.

6th European Seminar on Computing-ESCO 2018, Plzen, Czech Republic, 3 - 08 June 2018, pp.9

## Metrics

Publication: 7

Citation (WoS): 2

H-Index (WoS): 1

## Scholarships

2211-A General Domestic Doctorate Scholarship Program, TUBITAK, 2018 - Continues