

Prof. Cihat ARSLANTÜRK

Personal Information

Web: <https://avesis.atauni.edu.tr/carslan>

Address: Atatürk Üniversitesi Mühendislik Fakültesi Makine Mühendisliği Bölümü ERZURUM

International Researcher IDs

ScholarID: wpGGXkEAAAAJ

ORCID: 0000-0001-8332-477X

Yoksis Researcher ID: 31020

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 1989 - 1997

Postgraduate, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Turkey 1985 - 1989

Undergraduate, Istanbul Technical University, Makine Fakültesi, Turkey 1980 - 1984

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Fluidyne Isı Makinesinin Analizi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Enerji, 1997

Research Areas

Mechanical Engineering, Thermodynamics, Heat and Mass Transfer, Engineering and Technology

Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2012 - Continues

Associate Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 2007 - 2012

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 1998 - 2007

Research Assistant, Ataturk University, Mühendislik Fakültesi, Makine Mühendisliği, 1985 - 1998

Academic and Administrative Experience

Atatürk Üniversitesi, 2018 - Continues

Courses

Fen ve Mühendislik Uygulamalarında MATLAB, Postgraduate, 2021 - 2022

Thermodynamics-II, Undergraduate, 2020 - 2021

Bilgisayar Programlama, Undergraduate, 2017 - 2018

Advising Theses

Arslantürk C., Doğrusal Olmayan Isı Geçişi ve Akış Problemlerinin Parametrelerin Değişim Yöntemi ile Çözümü, Postgraduate, O.GÜNGÖR(Student), 2018

ARSLANTÜRK C., Küresel Koordinatlarda İçe Doğru Erime Probleminin Analizi, Postgraduate, B.BULUNTI(Student), 2003

Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, Aralık 2017., İstanbul Teknik Üniversitesi, December, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **District heating based on exhaust gas produced from end-of-life tires in Erzincan: Thermoeconomic analysis and optimization**
Güngör O., Tozlu A., Arslantürk C., Özahi E.
Energy, vol.294, 2024 (SCI-Expanded)
- II. **Performance analysis and optimization of a radiating fin array**
Solak K., ARSLANTÜRK C.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.236, no.16, pp.3482-3493, 2022 (SCI-Expanded)
- III. **Assessment of waste-to-energy potential of ELT management: An actual case study for Erzincan**
Gungor O., TOZLU A., ARSLANTÜRK C.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.41, no.2, 2022 (SCI-Expanded)
- IV. **Optimization of space radiators accounting for variable thermal conductivity and base-to-fin radiation interaction**
ARSLANTÜRK C.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.232, no.1, pp.121-130, 2018 (SCI-Expanded)
- V. **PERFORMANCE ANALYSIS AND OPTIMIZATION OF HYPERBOLIC PROFILE ANNULAR FINS**
Arslanturk C.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.3, pp.473-480, 2012 (SCI-Expanded)
- VI. **Performance analysis and optimization of hyperbolic profile annular fins Hiperbolik profilli dairesel kanatların performans analizi ve optimizasyonu**
ARSLANTÜRK C.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, 2012 (SCI-Expanded)
- VII. **Performance analysis and optimization of radiating fins with a step change in thickness and variable thermal conductivity by homotopy perturbation method**
Arslanturk C.
HEAT AND MASS TRANSFER, vol.47, no.2, pp.131-138, 2011 (SCI-Expanded)
- VIII. **Analysis of thermal performance of annular fins with variable thermal conductivity by homotopy analysis method**
ARSLANTÜRK C.

- Isi Bilimi Ve Teknigi Dergisi-Journal Of Thermal Science And Technology, vol.30, pp.1-7, 2010 (SCI-Expanded)
- IX. **Optimization of straight fins with a step change in thickness and variable thermal conductivity by homotopy perturbation method**
ARSLANTÜRK C.
Isi Bilimi Ve Teknigi Dergisi-Journal Of Thermal Science And Technology, vol.30, pp.9-19, 2010 (SCI-Expanded)
- X. **Optimization of space radiators with step fins**
Arslanturk C.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.224, pp.911-917, 2010 (SCI-Expanded)
- XI. **Correlation equations for optimum design of annular fins with temperature dependent thermal conductivity**
Arslanturk C.
HEAT AND MASS TRANSFER, vol.45, no.4, pp.519-525, 2009 (SCI-Expanded)
- XII. **Optimization of a central-heating radiator**
Arslanturk C., Ozguc A. F.
APPLIED ENERGY, vol.83, no.11, pp.1190-1197, 2006 (SCI-Expanded)
- XIII. **Optimum design of space radiators with temperature-dependent thermal conductivity**
Arslanturk C.
APPLIED THERMAL ENGINEERING, vol.26, pp.1149-1157, 2006 (SCI-Expanded)
- XIV. **Simple correlation equations for optimum design of annular fins with uniform thickness**
Arslanturk C.
APPLIED THERMAL ENGINEERING, vol.25, pp.2463-2468, 2005 (SCI-Expanded)
- XV. **A decomposition method for fin efficiency of convective straight fins with temperature-dependent thermal conductivity**
Arslanturk C.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.32, no.6, pp.831-841, 2005 (SCI-Expanded)
- XVI. **Performance analysis and optimization of a thermally non-symmetric annular fin**
Arslanturk C.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, vol.31, no.8, pp.1143-1153, 2004 (SCI-Expanded)
- XVII. **Modeling of central domestic water heater for buildings**
Kara Y. A., Arslanturk C.
APPLIED THERMAL ENGINEERING, vol.24, pp.269-279, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **THERMAL ANALYSIS OF LONGITUDINAL A POROUS FIN WITH TEMPERATURE-DEPENDENT INTERNAL HEAT GENERATION USING THE VARIATION OF PARAMETERS METHOD**
Gungor O., ARSLANTÜRK C.
JOURNAL OF APPLIED MATHEMATICS AND COMPUTATIONAL MECHANICS, vol.19, no.3, pp.5-16, 2020 (ESCI)
- II. **APPLICATION OF VARIATION OF THE PARAMETERS METHOD FOR MICROPOLAR FLOW IN A POROUS CHANNEL**
Gungor O., ARSLANTÜRK C.
JOURNAL OF APPLIED MATHEMATICS AND COMPUTATIONAL MECHANICS, vol.19, no.1, pp.17-29, 2020 (ESCI)
- III. **VARIATION OF PARAMETERS METHOD FOR A THREE-DIMENSIONAL PROBLEM OF CONDENSATION FILM ON AN INCLINED ROTATING DISK**
Gungor O., ARSLANTÜRK C.
JOURNAL OF APPLIED MATHEMATICS AND COMPUTATIONAL MECHANICS, vol.18, no.1, pp.15-28, 2019 (ESCI)
- IV. **Isıl Parametreleri Sıcaklıkla Değişen İğne Kanatların Parametrelerin Değişimi Yöntemi ile Analizi**

- ARSLANTÜRK C.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.24, pp.1-7, 2018 (Peer-Reviewed Journal)
- V. **Variation of parameters method for optimizing annular fins with variable thermal properties**
ARSLANTÜRK C.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.1, pp.1-7, 2018 (ESCI)
- VI. **Isıl Parametreleri Sıcaklıkla Değişen İğne Kanatların Isıl Analizi**
ARSLANTÜRK C.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.22, no.4, pp.246-252, 2016 (Peer-Reviewed Journal)
- VII. **Isıl Parametreleri Sıcaklıkla Değişen İğne Kanatların Isıl Analizi**
ARSLANTÜRK C.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.22, no.4, pp.246-252, 2016 (Peer-Reviewed Journal)
- VIII. **Performance analysis of pin fins with temperature dependent thermal parameters using the variation of parameters method**
ARSLANTÜRK C.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.22, pp.246-252, 2016 (ESCI)
- IX. **Analysis of inward melting of spheres subject to convection and radiation**
BÜLENT b., ARSLANTÜRK C.
Isı Bilimi ve Tekniği Dergisi, 2006 (Peer-Reviewed Journal)
- X. **A simple correlation equation for optimization of radiating rectangular fins with variable thermal conductivity**
ARSLANTÜRK C.
Isı Bilimi Ve Tekniği Dergisi, 2006 (Peer-Reviewed Journal)
- XI. **Heat transfer analysis of straight fins with variable conductivity using Adomian decomposition method**
ARSLANTÜRK C.
Isı Bilimi Ve Tekniği Dergisi, 2005 (Peer-Reviewed Journal)
- XII. **Heat transfer analysis of convective annular fins with a step change in thickness and variable thermal conductivity**
ARSLANTÜRK C.
Isı Bilimi Ve Tekniği Dergisi, 2005 (Peer-Reviewed Journal)
- XIII. **Small time analytical solution of phase change problems in cylindrical and spherical domains**
ARSLANTÜRK C.
Isı Bilimi Ve Tekniği Dergisi, 2004 (Peer-Reviewed Journal)
- XIV. **Optimum design of a rectangular fin with temperature dependent thermal parameters**
ARSLANTÜRK C.
Isı Bilimi Ve Tekniği Dergisi-Journal Of Thermal Science And Technology, 2004 (Peer-Reviewed Journal)
- XV. **Binalarda kullanılan boylerlerin modellenmesi**
kara y. a., ARSLANTÜRK C.
Tesisat Mühendisliği Dergisi, 2003 (Peer-Reviewed Journal)
- XVI. **Silindir etrafında katılaşma probleminin pertürbasyon yöntemi ile çözüm**
ARSLANTÜRK C.
Isı Bilimi Ve Tekniği Dergisi, 2003 (Peer-Reviewed Journal)
- XVII. **Fluidyne ısı makinasının deneysel analiz i**
ARSLANTÜRK C., ÖZGÜÇ A. F.
Termodinamik Dergisi, 2002 (Peer-Reviewed Journal)
- XVIII. **Hydrodynamic and thermal analysis of fluidyne heat engine**
ARSLANTÜRK C., ÖZGÜÇ A. F.
Applied Mechanics And Engineering, 2000 (Peer-Reviewed Journal)
- XIX. **Fluidyne Isı Makinesi**

ARSLANTÜRK C., ÖZGÜÇ A. F.

Enerji Dergisi, 1998 (Peer-Reviewed Journal)

XX. Silindirik uzayda dışa doğru katılma problemlerinin sonlu elemanlar yöntemi ile analizi

ARSLANTÜRK C., SEYHAN e., MACİT t.

Ege Üniversitesi Güneş Enerjisi Enstitüsü Dergisi, 1989 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. İçindeki Isı Üretimi Sıcaklıkla Değişen Gözenekli Düz Kanatların Isıl Analizi İçin Tam Çözüm

GÜNGÖR O., ARSLANTÜRK C.

22. Isı Bilimi ve Tekniği Kongresi, 11 - 14 September 2019

II. A General Overview on Current Status of ELT Management

GÜNGÖR O., TOZLU A., ARSLANTÜRK C.

3rd International Conference on Advanced Engineering Technologies (ICADET), 19 - 21 September 2019

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