

Prof. AYHAN YILMAZER

Personal Information

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Education Information

Doctorate, İstanbul Teknik Üniversitesi, Enerji Enstitüsü, Nükleer Teknoloji Abd, Turkey 1997 - 2004

Post Graduate, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, Nükleer Teknoloji Abd, Turkey 1995 - 1997

Under Graduate, Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, Turkey 1983 - 1987

Foreign Languages

English, C1 Advanced

Research Areas

Mechanical Engineering, Energy, Nuclear Energy, Engineering and Technology

Academic Titles / Tasks

Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2014 - Continues

Associate Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2010 - 2014

Assistant Professor, Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2007 - 2010

Lecturer, Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2004 - 2007

Research Assistant, University Of Missouri-Columbia, Nuclear Science And Engineering Institute, Nuclear Science And Engineering Institute, 1990 - 1991

Research Assistant, Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 1987 - 1990

Professional Experience

Head of Department, Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2015 - Continues

Assistant Director of the Institute, Hacettepe Üniversitesi, Nükleer Bilimler Enstitüsü, Radyasyon Fiziği Ve Uygulamaları Anabilim Dalı, 2008 - Continues

Deputy Head of Department, Hacettepe Üniversitesi, Mühendislik Fakültesi, Nükleer Enerji Mühendisliği Bölümü, 2007 - 2015

Advising Theses

YILMAZER A., Nötron dozimetrisinde B4C ile filtreli LiF-TLD100 kullanımının incelenmesi, Post Graduate,

İ.AYDOĞAN(Student), 2015

YILMAZER A., Neutronic analysis of the accelerator driven systems, Post Graduate, H.ATAK(Student), 2010

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **HEAT CONDUCTION IN CONVECTIVELY COOLED ECCENTRIC SPHERICAL ANNULI A Boundary Integral Moment Method**
YILMAZER A., KOCAR C.
THERMAL SCIENCE, vol.21, pp.2255-2266, 2017 (Journal Indexed in SCI)
- II. **A novel analytical method for heat conduction in convectively cooled eccentric cylindrical annuli**
YILMAZER A., KOCAR C.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.83, pp.1-15, 2014 (Journal Indexed in SCI)
- III. **Exact solution of the heat conduction equation in eccentric spherical annuli**
YILMAZER A., KOCAR C.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.68, pp.158-172, 2013 (Journal Indexed in SCI)
- IV. **An analytical benchmark of MYRRHA ADS in cylindrical geometry**
ATAK H., YILMAZER A.
KERNTECHNIK, vol.76, pp.347-355, 2011 (Journal Indexed in SCI)
- V. **Green's function, temperature in a convectively cooled sphere with arbitrarily located spherical heat sources**
Yilmazer A.
APPLIED MATHEMATICAL MODELLING, vol.33, pp.3245-3257, 2009 (Journal Indexed in SCI)
- VI. **SOME BENCHMARK RESULTS IN SPHERICAL MEDIA RADIATIVE TRANSFER PROBLEMS**
YILMAZER A., KOCAR C.
TRANSPORT THEORY AND STATISTICAL PHYSICS, vol.38, pp.273-292, 2009 (Journal Indexed in SCI)
- VII. **Unified treatment of the P-n(λ) approximation to solve the reflected slab criticality problem with strong anisotropy**
YILMAZER A., TOMBAKOĞLU M.
KERNTECHNIK, vol.73, pp.260-268, 2008 (Journal Indexed in SCI)
- VIII. **A comparative study of classical polynomial approximations to solve the transport equation in spherical albedo problems**
YILMAZER A., KOCAR C.
KERNTECHNIK, vol.73, pp.270-276, 2008 (Journal Indexed in SCI)
- IX. **Ultraspherical-polynomials approximation to the radiative heat transfer in a slab with reflective boundaries**
YILMAZER A., Kocar C.
INTERNATIONAL JOURNAL OF THERMAL SCIENCES, vol.47, pp.112-125, 2008 (Journal Indexed in SCI)
- X. **Spectral P-N(λ) approximation(s) to the transport problems in spherical media**
Yilmazer A.
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.108, pp.403-422, 2007 (Journal Indexed in SCI)
- XI. **Jacobi polynomials approximation to the one-speed neutron transport equation**
Yilmazer A.
ANNALS OF NUCLEAR ENERGY, vol.34, pp.977-991, 2007 (Journal Indexed in SCI)
- XII. **Solution of one-speed neutron transport equation for strongly anisotropic scattering by T-N approximation: Slab criticality problem**
Yilmazer A.
ANNALS OF NUCLEAR ENERGY, vol.34, pp.743-751, 2007 (Journal Indexed in SCI)
- XIII. **On equiconvergence of ultraspherical polynomials solution of one-speed neutron transport equation**

Yilmazer A., Tombakoglu M.

ANNALS OF NUCLEAR ENERGY, vol.33, pp.957-965, 2006 (Journal Indexed in SCI)

XIV. Analysis of a total loss of pool water accident in MTR-type research reactors

Yilmazer A., YAVUZ H.

KERNTECHNIK, vol.69, pp.154-160, 2004 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

I. Usage of LiF-TLD100 Detector and B4C Filter in Neutron Dosimetry

Aydogan I., YILMAZER A.

24th International Conference on Nuclear Energy for New Europe (NENE), Portoroz, Slovenia, 14 - 17 September 2015

Supported Projects

YILMAZER A., GÜRDAL Ş. O. , KOCAR C., Project Supported by Higher Education Institutions, Radyasyon Algılama ve Ölçme Laboratuvarındaki Kaynakların Fiziksel Korunması ve Doz İzleme, 2017 - 2018

YILMAZER A., Project Supported by Higher Education Institutions, 24ncü Yeni Avrupa İçin Nükleer Enerji Konferansı, 2015 - 2016

YILMAZER A., KOCAR C., Project Supported by Higher Education Institutions, Uluslararası Nükleer Güç Reaktörleri Kullanılmış Yakıtlarının Yönetimi Konferansı Yakıt Çevriminin Arka-Ucuna Entegre Bir Yaklaşım, 15-19 Haziran 2015, UAEA Genel Merkezi, Viyana, Avusturya., 2015 - 2015

Citations

Total Citations (WOS):62

h-index (WOS):5