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Education Information

Doctorate, İstanbul Technical University, Nükleer Enerji Enstitüsü, Turkey 1988 - 1995

Postgraduate, İstanbul Technical University, Nükleer Enerji Enstitüsü, Turkey 1984 - 1987

Undergraduate, Gazi University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1977 - 1981

Foreign Languages

English

Dissertations

Doctorate, A Loss of coolant accident analysis for near stagnation flow in the horizontal fuel channel of candu reactor, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, 1995

Postgraduate, NÜKLEER REAKTÖRLE MERKEZİ ISITMA YAPAN SİSTEMLERİN İNCELENMESİ VE MODELLENMESİ, İstanbul Teknik Üniversitesi, Nükleer Enerji Enstitüsü, 1987

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2005 - Continues

Research Assistant, İstanbul Technical University, Nükleer Enerji Enstitüsü, 1995 - 1997

Research Assistant, İstanbul Technical University, Nükleer Enerji Enstitüsü, 1985 - 1995

Academic and Administrative Experience

Enstitü Yönetim Kurulu Üyesi, İstanbul Technical University, Enerji Enstitüsü, 2021 - Continues

Head of Department, İstanbul Technical University, Enerji Enstitüsü, Nükleer Araştırmalar, 2021 - Continues

Head of Department, İstanbul Technical University, Enerji Enstitüsü, Konvansiyonel Enerji, 2009 - 2009

Enstitü Yönetim Kurulu Üyesi, İstanbul Technical University, Enerji Enstitüsü, 2009 - 2009

Assistant Director of the Institute, İstanbul Technical University, Enerji Enstitüsü, 2009 - 2009

Enstitü Yönetim Kurulu Üyesi, İstanbul Technical University, Enerji Enstitüsü, 1997 - 1999

Advising Theses

Durmaz A., ENERGY, EXERGY, ECONOMIC AND ENVIRONMENTAL-BASED DESIGN, ANALYSIS AND MULTI OBJECTIVE OPTIMIZATION OF NOVEL SOLAR TOWER-BASED GAS TURBINE CYCLE MULTI-GENERATION SYSTEMS WITH NEW PERFORMANCE CRITERIA, Doctorate, M.ÇOLAKOĞLU(Student), 2022

Durmaz A., A COMPARATIVE ANALYSIS OF LSTM AND XGBOOST METHODS FOR DAY AHEAD ELECTRICITY PRICE FORECASTING, Postgraduate, C.URAL(Student), 2020

Durmaz A., Energy and exergy-based thermodynamic analysis of the scimitar engine at mach 5.0, Postgraduate, M.BİŞAR(Student), 2017

Durmaz A., Two-phase friction multiplier look-up table for water-steam flows in vertical tubes, Postgraduate, B.ÖZTÜRKÜN(Student), 2015

Durmaz A., Effect of heat leakage on the optimal performance of a twin-spool turbofan engine, Postgraduate, M.ÇOLAKOĞLU(Student), 2015

Durmaz A., Düşey borularda su-buhar akışı için iki-fazlı sürtünme çarpanı hesaplamasında kullanılan deneysel verilerin, korelasyonların ve basınç düşümü bileşenlerinin analizi, Postgraduate, İ.AHMET(Student), 2011

Durmaz A., CANDU 6 nükleer güç santralinin ekserji analizi, Postgraduate, V.ÜNSAL(Student), 2010

Durmaz A., Isıtlımsız düşey borularda iki-fazlı sıvı su-buhar akışı için basınç düşümü ölçümleri ve korelasyonlarla belirlenen sürtünme çarpanlarının karşılaştırılması, Postgraduate, N.EMRE(Student), 2010

Durmaz A., Birleşik çevrimli kojenerasyon tesisinin performansına hava şartlarının, yük faktörünün ve ara soğutmanın etkisi, Postgraduate, H.VOLKAN(Student), 2009

Durmaz A., Kuddusi L., Soğutma sistemi buharlaştırıcılarında alternatif kar çözürme yöntemleri ve uygulamaları, Postgraduate, E.GÜMÜŞ(Student), 2009

Durmaz A., Nükleer güç tesisi simülatörleri, Postgraduate, S.YILDIRIM(Student), 2002

Durmaz A., Thermal-hydraulic analysis of ITU triga mark-II reaktör, Postgraduate, E.HAKAN(Student), 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Multiobjective optimization of a pressurized water reactor cogeneration plant for nuclear hydrogen production

Tanbay T., Durmaz A.

International Journal of Hydrogen Energy, vol.54, pp.49-65, 2024 (SCI-Expanded)

- II. Impact of combustion chamber wall heat loss on the energy, exergy, ecology, NOx emission based performance and multiobjective optimization of the precooled scimitar engine

Tanbay T., Durmaz A.

International Journal of Hydrogen Energy, vol.48, no.60, pp.23258-23271, 2023 (SCI-Expanded)

- III. Energy, exergy, economic and emission saving analysis and multiobjective optimization of a new multi-generation system based on a solar tower with triple combined power cycle

Colakoglu M., Durmaz A.

SUSTAINABLE ENERGY TECHNOLOGIES AND ASSESSMENTS, vol.52, 2022 (SCI-Expanded)

- IV. Multiobjective Optimization of a Novel Solar Tower-Based Gas Turbine-Driven Multi-Generation Plant With Energy, Exergy, Economic, and Environmental Impact Analysis

Colakoglu M., Durmaz A.

- JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME, vol.144, no.5, 2022 (SCI-Expanded)
- V. Energy, exergy and ecological analysis and multiobjective optimization of the hydrogen-fueled Scimitar engine with fixed nozzle geometry
Tnbay T., Durmayaz A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.45, pp.19876-19887, 2022 (SCI-Expanded)
- VI. Energy, exergy and economic analyses and multiobjective optimization of a novel solar multi-generation system for production of green hydrogen and other utilities
Colakoglu M., Durmayaz A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.45, pp.19446-19462, 2022 (SCI-Expanded)
- VII. Energy, exergy and environmental-based design and multiobjective optimization of a novel solar-driven multi-generation system
Colakoglu M., Durmayaz A.
ENERGY CONVERSION AND MANAGEMENT, vol.227, 2021 (SCI-Expanded)
- VIII. Exergy and NOx Emission-Based Ecological Performance Analysis of the Scimitar Engine
Tnbay T., Durmayaz A.
JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME, vol.142, no.8, 2020 (SCI-Expanded)
- IX. Assessment of NOx emissions of the Scimitar engine at Mach 5 based on a thermodynamic cycle analysis
Tnbay T., Uca M. B., Durmayaz A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.5, pp.3632-3640, 2020 (SCI-Expanded)
- X. Effect of heat leakage on the performance of a twin-spool turbofan engine
Colakoglu M., TANBAY T., Durmayaz A., SOGUT O. S.
INTERNATIONAL JOURNAL OF EXERGY, vol.19, no.2, pp.173-198, 2016 (SCI-Expanded)
- XI. Exergy-based optimisation of a turbofan engine
Tnbay T., Durmayaz A., Sögüt O. S.
INTERNATIONAL JOURNAL OF EXERGY, vol.16, no.3, pp.358-381, 2015 (SCI-Expanded)
- XII. The effect of heat loss on the performance of a solar-driven heat engine
Sogut O. S., Durmayaz A.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.223, no.7, pp.1615-1621, 2009 (SCI-Expanded)
- XIII. The 2006 CHF look-up table
Groeneveld D. C., Shan J. Q., Vasic A. Z., Leung L. K. H., Durmayaz A., Yang J., Cheng S. C., Tanase A.
NUCLEAR ENGINEERING AND DESIGN, vol.237, no.15-17, pp.1909-1922, 2007 (SCI-Expanded)
- XIV. Ecological performance optimisation of a solar driven heat engine
Sogut O. S., Durmayaz A.
JOURNAL OF THE ENERGY INSTITUTE, vol.79, no.4, pp.246-250, 2006 (SCI-Expanded)
- XV. Influence of cooling water temperature on the efficiency of a pressurized-water reactor nuclear-power plant
Durmayaz A., Sogut O. S.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.30, no.10, pp.799-810, 2006 (SCI-Expanded)
- XVI. Ecological coefficient of performance (ECOP) optimization for an irreversible Brayton heat engine with variable-temperature thermal reservoirs
ÜST Y., Sogut O., ŞAHİN B., Durmayaz A.
JOURNAL OF THE ENERGY INSTITUTE, vol.79, no.1, pp.47-52, 2006 (SCI-Expanded)
- XVII. Performance optimization of a solar driven heat engine with finite-rate heat transfer
Sogut O., Durmayaz A.
RENEWABLE ENERGY, vol.30, no.9, pp.1329-1344, 2005 (SCI-Expanded)
- XVIII. Optimization of thermal systems based on finite-time thermodynamics and thermoeconomics
Durmayaz A., Sogut O., ŞAHİN B., Yavuz H.

- PROGRESS IN ENERGY AND COMBUSTION SCIENCE, vol.30, no.2, pp.175-217, 2004 (SCI-Expanded)
- XIX. Heating energy requirements and fuel consumptions in the biggest city centers of Turkey
Durmayaz A., Kadioglu M.
ENERGY CONVERSION AND MANAGEMENT, vol.44, no.7, pp.1177-1192, 2003 (SCI-Expanded)
- XX. Exergy analysis of a pressurized-water reactor nuclear-power plant
Durmayaz A., Yavuz H.
APPLIED ENERGY, vol.69, no.1, pp.39-57, 2001 (SCI-Expanded)
- XXI. An application of the degree-hours method to estimate the residential heating energy requirement and fuel consumption in Istanbul
Durmayaz A., Kadioglu M., Sen Z.
ENERGY, vol.25, pp.1245-1256, 2000 (SCI-Expanded)
- XXII. Approximate functions for the fast computation of the thermodynamic properties of heavy water
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- XXIII. Xenon poisoning method for the determination of the average macroscopic fission and total absorption cross sections and the thermal neutron flux
Durmayaz A., Sisman A., Cetin Sisman F., Yavuz H.
Kerntechnik, vol.62, pp.245-248, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. Nükleer Enerji Teknolojileri ve Güvenliği
DURMAYAZ A.
ÇERÇEVE, vol.19, no.56, pp.152-173, 2011 (Peer-Reviewed Journal)
- II. Enerji Üretiminin Atmosferik Sera Gazlarına ve Küresel Isınmaya Etkisi
DURMAYAZ A., KADIOĞLU M.
TMMOB Meteoroloji Mühendisleri Odası, Meteoroloji Mühendisliği, vol.1, no.2, pp.7-14, 2001 (Peer-Reviewed Journal)
- III. Dünya Atmosfer Sisteminin Enerji Transferi Dengesi
DURMAYAZ A., KADIOĞLU M.
Enerji Dünyası, vol.1, no.22, pp.22-28, 1999 (Peer-Reviewed Journal)
- IV. Nükleer Güç Reaktörleri Dünya Panoraması
DURMAYAZ A.
TMMOB Makina Mühendisleri Odası, Mühendis ve Makina, vol.39, no.463, pp.15-21, 1998 (Peer-Reviewed Journal)
- V. Nükleer Reaktörle Merkezi Isıtma
DURMAYAZ A.
TMMOB Makina Mühendisleri Odası, Mühendis ve Makina, vol.29, no.341, pp.12-18, 1988 (Peer-Reviewed Journal)
- VI. Endüstriyel Büyük Parçaların Gamagrafik Kontrolü
BİLGE A. N., TUĞRUL A. B., DURMAYAZ A., GÜNGÖRDÜ E.
TMMOB Metallurji Dergisi, Tahribatsız Muayene Özel Sayısı, vol.1, no.1, pp.34-37, 1988 (Peer-Reviewed Journal)

Books & Book Chapters

- I. Nükleer Enerji Üretimi, Yeri ve Tasarım Kriterleri
DURMAYAZ A.
in: Sürdürülebilir Kalkınma için Nükleer Enerjinin Önemi (Durmayaz, A., Soğutma suyu sıcaklığının bir basınçlı su reaktörü nükleer güç tesisinin ıslı verimine etkisi, s. 75-89), Hüseyinoğlu, Ash, Editor, TASAM Yayınları: 25, İstanbul, pp.75-89, 2006

Refereed Congress / Symposium Publications in Proceedings

- I. **Energy, exergy and emission performance prediction of the hydrogen-fueled scimitar engine with machine learning methods**
Tanbay T., Durmayaz A.
11th Global Conference on Global Warming, İstanbul, Turkey, 14 - 16 June 2023
- II. **Numerical modelling of groundwater radionuclide transport with finite difference based method of lines**
Tanbay T., Durmayaz A.
International Nuclear Sciences and Technologies Conference (INSTEC-22), Aydın, Turkey, 19 - 22 October 2022, pp.44
- III. **Multiobjective Optimization of a PWR Nuclear Cogeneration Plant for Hydrogen Production**
Tanbay T., Durmayaz A.
23rd World Hydrogen Energy Conference (WHEC-2022), İstanbul, Turkey, 26 - 30 June 2022, pp.362-364
- IV. **Exergoenvironmental Multiobjective Optimization of the Scimitar Engine**
TANBAY T., DURMAYAZ A.
6th International Hydrogen Technologies Congress (IHTEC-2022), Proceedings, (Paper no: 313), Çanakkale, Turkey, 23 - 26 January 2022, pp.163-165
- V. **Energy, exergy and environmental analysis and multiobjective optimization of a solar renewable energy multi-generation system considering the summer daytime climatic conditions of Mediterranean region in Turkey**
Colakoglu M., Durmayaz A.
11th International 100% Renewable Energy Conference (IRENEC)-2021, İstanbul, Turkey, 20 - 23 May 2021, pp.174-184
- VI. **Exergetic assessment of the secondary loop of a PWR cogeneration plant for nuclear hydrogen production**
Tanbay T., Durmayaz A.
ULIBTK'21 Uluslararası Katılımlı 23. İSİ Bilimi ve Tekniği Kongresi, 8 - 10 September 2021, pp.944-949
- VII. **Energy, exergy and economic analyses and multiobjective optimization of a novel solar multigeneration system for production of green hydrogen and other utilities**
COLAKOGLU M., DURMAYAZ A.
5th International Hydrogen Technologies Congress - Online (IHTEC-2021), Niğde, Turkey, 26 May 2021, pp.353-355
- VIII. **Thermodynamic Optimization of the Scimitar Engine with Fixed Nozzle Geometry**
TANBAY T., DURMAYAZ A.
5th International Hydrogen Technologies Congress - Online (IHTEC-2021), Niğde, Turkey, 26 May 2021, pp.240-242
- IX. **Thermodynamic analysis of a nuclear desalination cogeneration plant**
Şekerci H., Demir E., TANBAY T., DURMAYAZ A.
22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 September 2019, pp.415-420
- X. **Exergy analysis of the Scimitar engine at Mach 5**
TANBAY T., DURMAYAZ A.
4th International Hydrogen Technologies Congress (IHTEC-2019), Edirne, Turkey, 20 - 23 June 2019, pp.540-543
- XI. **Assessment of NOx emissions of the Scimitar engine at Mach 5 based on a thermodynamic cycle analysis**
TANBAY T., Uca M. B., DURMAYAZ A.
7th Global Conference on Global Warming, İzmir, Turkey, 24 - 28 June 2018, pp.141-144
- XII. **Scimitar motoru helyum rejeneratörü çevriminin 5 Mach hızda termodinamik analizi**
TANBAY T., Uca M. B., DURMAYAZ A.
21. Ulusal İSİ Bilimi ve Tekniği Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.1223-1230
- XIII. **Scimitar motoru ön yakıcısı ve yanma odasının 5 Mach hızda termodinamik analizi**

- UCA M. B., TANBAY T., DURMAYAZ A.
21. Ulusal Isı Bilimi ve Tekniği Kongresi, Çorum, Turkey, 13 - 16 September 2017, pp.1231-1238
- XIV. **Energy and Exergy based Performance Analysis of the Scimitar Engine at Mach 5 0**
UCA M. B., ÇOLAKOĞLU M., DURMAYAZ A.
the 8th International Ege Energy Symposium and Exhibition (IEESE-8), AFYON, Turkey, 11 - 13 May 2016, pp.766-773
- XV. **Effect of heat leakage on the performance of a twin spool turbofan engine**
Colakoglu M., Tanbay T., Durmayaz A., Sögüt O. S.
7th International Ege Energy Symposium and Exhibition (IEESE-7), Uşak, Turkey, 18 - 20 June 2014, pp.477-500
- XVI. **Turbojet Motorunun Sonlu Zaman Termodinamiği ile Ekolojik Optimizasyonu**
TANBAY T., DURMAYAZ A., SÖĞÜT O. S.
ULIBTK'13, 19. Ulusal Isı Bilimi ve Tekniği Kongresi, (Bildiri no: ULIBTK'13-047) , Ondokuzmayis Üniversitesi ve Türk Isı Bilimi ve Tekniği Derneği, Samsun, Turkey, 9 - 12 September 2013, pp.855-860
- XVII. **İki Fazlı Akış Parametreleri İçin Tarama Tablosu Geliştirme Metodolojisi**
ÖZTÜRKÜN B., ODABAŞ İ. A., DURMAYAZ A.
ULIBTK'13, 19. Ulusal Isı Bilimi ve Tekniği Kongresi, (Bildiri no: ULIBTK'13-049), Ondokuzmayis Üniversitesi ve Türk Isı Bilimi ve Tekniği Derneği, Samsun, Turkey, 9 - 12 September 2013, pp.60-66
- XVIII. **Isıtılmış ve Adyabatik Düşey Borularda Su Buhar Akışı İçin İki Fazlı Akış Sürtünme Çarpanı Korelasyonlarının Homojen Akış Modelinin ve Basınç Düşümü Bileşenlerinin Analizi**
ODABAŞ İ. A., GENGEÇ N. E., ÖZTÜRKÜN B., DURMAYAZ A.
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- XIX. **Nükleer Enerji Alanında Uzman İhtiyacı ve Türkiye de Nükleer Enerji Eğitimi**
ÖZGENER H. A., ÖZGENER B., DURMAYAZ A.
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- XX. **Nükleer Teknolojiye Sahip Olmada Türkiye ye Bir Örnek Güney Kore nin Nükleer Güç Teknolojisi Geliştirme Modeli**
DURMAYAZ A., ÖZGENER H. A., ÖZGENER B.
Türkasya Stratejik Araştırmalar Merkezi (TASAM), Türkiye'nin Stratejik Vizyonu 2023 / Stratejik Lokomotif Sektörler: Türkiye 2023 - Uluslararası Nükleer Teknoloji Transferi Kongresi, Princess Hotel Ortaköy - İstanbul, İstanbul, Turkey, 21 - 22 September 2012
- XXI. **Assessment of selected two phase friction multiplier correlations for steam water flows in vertical heated and unheated tubes**
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20th International Conference on Nuclear Engineering (ICON20POWER2012-54938) organized by the American Nuclear Society (ANS) and held in Anaheim, CA, USA, California, United States Of America, 30 July - 03 August 2012
- XXII. **CANDU 6 Nükleer Güç Santralinin Ekserji Analizi**
ÜNSAL V., DURMAYAZ A.
ULIBTK'11, 18. Ulusal Isı Bilimi ve Tekniği Kongresi, (Bildiri no: ULIBTK11-020), Zonguldak, Turkey, 7 - 10 September 2011, pp.623-629
- XXIII. **ASSESSMENT OF SELECTED TWO-PHASE FRICTION MULTIPLIER CORRELATIONS FOR STEAM-WATER FLOWS IN VERTICAL HEATED AND UNHEATED TUBES**
Durmaz A., Odabas I. A., Groeneveld D. C., Gengec N. E.
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- XXIV. **Performance optimization of a gas cooled reactor nuclear power plant with finite rate heat transfer**
MOLLAOGLU G., DURMAYAZ A., SÖĞÜT O. S.
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- XXV. **Birleşik Çevrimli Bir Doğalgaz Kojenerasyon Tesisinin Simülasyonu ve Performans Analizi**
YENER H. V., DURMAYAZ A.
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- XXVI. **Impact of ambient air conditions load factor and inter cooling on the performance of a combined cycle cogeneration plant**
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- XXVII. **Exergy analysis of water cooled reactor nuclear power plants**
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- XXVIII. **Güneş Enerjisi Tahrikli Isı Makinasının Performansına Isı Kaybının Etkisi**
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- XXIX. **The 2005 CHF look up table**
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- XXX. **Güneş Enerjisi Tahrikli Isı Makinasının Ekolojik Performans Optimizasyonu**
SÖĞÜT O. S., DURMAYAZ A.
ULIBTK'05 15. Ulusal Isı Bilimi ve Tekniği Kongresi, (Bildiri no: OS-ULIBTK134), Karadeniz Teknik Üniversitesi ve Türk Isı Bilimi ve Tekniği Derneği, Trabzon, Turkey, 7 - 09 September 2005, pp.584-589
- XXXI. **Methodology of CHF look up table derivation**
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- XXXIV. **İTÜ TRIGA Mark II Reaktörü nün COMMIX 1C Kodu ile Geçici Rejimde Üç Boyutlu Termal Hidrolik Analizi**
ÜSTÜN G., DURMAYAZ A.
VIII. Ulusal Nükleer Bilimler ve Teknoloji Kongresi, Türkiye Atom Enerjisi Kurumu ve Erciyes Üniversitesi, Kayseri, Turkey, 15 - 17 October 2003
- XXXV. **İstanbul da Binalarda Isınma Amaçlı Yakıt Tüketiminden Kaynaklanan Karbon Dioksit Emisyonları**
KADIOĞLU M., DURMAYAZ A.
II. Çevre ve Enerji Kongresi, TMMOB Makina Mühendisleri Odası, İstanbul, Turkey, 15 - 17 November 2001, pp.11-19
- XXXVI. **Elektrik Enerjisi Üretimi Amaçlı Isıl Güç Tesislerinin Ekserji Analizi ve Önemi**
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ÜSTÜN G., DURMAYAZ A.
ULIBTK'xx01 13. Ulusal Isı Bilimi ve Tekniği Kongresi, Selçuk Üniversitesi ve Türk Isı Bilimi ve Tekniği Derneği, Konya, Turkey, 5 September - 07 November 2001, pp.247-254
- XXXVIII. **Assessment of the impact of climate change on the residential cooling energy requirement and fuel consumption in Adana**
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- XL. **A parametric thermal hydraulic analysis of ITU TRIGA Mark II reactor**
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