Prof. EMRE ALPMAN

Personal Information

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International Researcher IDs
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Publons / Web Of Science ResearcherID: GCI-6192-2022
ScopusID: 11438906700
Yoksis Researcher ID: 173175

Education Information

Doctorate, Pennsylvania State University, Aerospace Engineering, United States Of America 2002 - 2006
Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Havacılık Mühendisliği (Yl) (Tezli), Turkey 1999 - 2001
Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Aerospace Engineering, Turkey 1995 - 1999

Biography

Dr. Emre Alpman was born in 1977 in Ankara Turkey. He graduated from Gazi Anatolian High School in 1995. He then attended the Aeronautical Engineering Department of Middle East Technical University and graduated with the first rank in 1999. He recevied his M.Sc. degree from the same department in 2001. In 2002 he joined the Aerospace Engineering Department of the Pennsylvania State University for a Ph.D. degree, which he received in 2006. In December 2006 he joined the Mechanical Engineering Department of Marmara University as an Assistant Professor. He was qualified for the Associate Professor degree in October 2013 and full Professor degree in August 2020. He continues to work as a faculty member in the Mechanical Engineering Department of Marmara University.

Foreign Languages

English, C1 Advanced

Research Areas

Mechanical Engineering, Energy, Thermodynamics

Academic Titles / Tasks

Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2020 - Continues
Associate Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2014 - 2020
Assistant Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2006 - 2014

Academic and Administrative Experience

MÜDEK Komisyonu başkanı, Marmara University, Faculty of Engineering, Mechanical Engineering, 2014 - Continues
Marmara University, Faculty of Engineering, Mechanical Engineering, 2014 - 2017
Marmara University, Faculty of Engineering, Mechanical Engineering, 2012 - 2017
Marmara University, Faculty of Engineering, Mechanical Engineering, 2009 - 2017

Courses

Engineering Project 2, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
Thermic Turbomachineries, Undergraduate, 2023 - 2024, 2022 - 2023
Special Topics in Mechanical Engineering II, Undergraduate, 2023 - 2024, 2022 - 2023
Finite Element Analysis, Undergraduate, 2023 - 2024, 2022 - 2023
Engineering Project 1, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
Fluid Mechanics, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008
Advanced Fluid Mechanics, Postgraduate, 2023 - 2024
Compressible Fluid Flow, Undergraduate, 2023 - 2024, 2021 - 2022, 2018 - 2019, 2017 - 2018
Computer Programing , Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2008 - 2009, 2007 - 2008
Mechanical Engineering Laboratory, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Linear Algebra, Undergraduate, 2008 - 2009, 2007 - 2008

Advising Theses

Alpman E., Az Maliyetli Küçük Ölçekli Uçan bir Rüzgar Türbininin Çoklu Parametre Optimizasyonu, Doctorate, A.Emrah(Student), Continues
Alpman E., Namlı O. C., Aerodynamic optimization of axial fan with morphing blades, Postgraduate, O.FIRAT(Student), Continues
ALPMAN E., Position optimization of film cooling holes on a squealer turbine blade tip, Postgraduate, F.Yıldız(Student), 2019
ALPMAN E., Analysis of water hammer effects inside pipes using advanced CFD techniques, Postgraduate, A.İstanbullu(Student), 2019
Alpman E., Onat A., The design, development and analysis of a hybrid household refrigerator combining thermoelectric and vapour compression cooling systems, Doctorate, E.SÖYLEMEZ(Student), 2018
ALPMAN E., Extending current techniques for electrical layout optimization of onshore wind farms considering 3d model of the terrain, Postgraduate, K.DEVECİ(Student), 2018

ALPMAN E., Centrifugal pump design and performance optimization using loss correlations, Postgraduate, O.MERCAN(Student), 2018

ALPMAN E., Experimental and theoretical investigation of fluidized bed gasification with cold and hot systems, Doctorate, S.GÜL(Student), 2017

ALPMAN E., Prediction and improvement of wind turbine acoustics for aerodynamic noise reduction, Doctorate, A.ALPER(Student), 2016

ALPMAN E., YILMAZ B., A transport equation model for the residual stress tensor in large eddy simulation of axial turbine flows, Doctorate, S.ABDALLAH(Student), 2014

ALPMAN E., Experimental analysis of thermosyphon solar hot water heater including simulation model validation, Postgraduate, M.ASLAN(Student), 2011

ALPMAN E., Aerodynamic analysis and performance predictions for wind turbines, Postgraduate, M.EREN(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Aerothermal Optimization of Film Cooling Hole Locations on the Squealer Tip of an HP Turbine Blade**
Yıldız F., ALPMAN E., Kavurmacıoğlu L. A., Camci C.
Journal of Thermal Science and Engineering Applications, vol.16, no.5, 2024 (SCI-Expanded)

II. **Mesh-Free Analysis of a Vertical Axis Wind Turbine Using Lattice Boltzmann Method and Various Turbulence Models**
Laloglu C., ALPMAN E.
APPLIED SCIENCES-BASEL, vol.13, no.15, 2023 (SCI-Expanded)

III. **CFD analysis for predicting cooling time of a domestic refrigerator with thermoelectric cooling system Analyse CFD pour la prévision de la durée de refroidissement d'un réfrigérateur domestique avec système de refroidissement thermoélectrique**
Söylemez E., ALPMAN E., ONAT A., HARTOMACIOĞLU S.
International Journal of Refrigeration, vol.123, pp.138-149, 2021 (SCI-Expanded)

IV. **Electrical Layout Optimization of Onshore Wind Farms Based on a Two-Stage Approach**
Deveci K., Barutçu B., ALPMAN E., Tascikaraoglu A., ERDİNÇ O.
IEEE TRANSACTIONS ON SUSTAINABLE ENERGY, vol.11, no.4, pp.2407-2416, 2020 (SCI-Expanded)

V. **A Genetic Algorithm Based Multi-Objective Optimization of Squealer Tip Geometry in Axial Flow Turbines: A Constant Tip Gap Approach**
Maral H., Senel C. B., Deveci K., Alpman E., Kavurmacioglu L., Camci C.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.142, no.2, 2020 (SCI-Expanded)

VI. **A genetic algorithm based aerothermal optimization of tip carving for an axial turbine blade**
Maral H., Alpman E., Kavurmacıoğlu L., Camcı C.
INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, vol.143, 2019 (SCI-Expanded)

VII. **Numerical (CFD) and experimental analysis of hybrid household refrigerator including thermoelectric and vapour compression cooling systems**
Soylemez E., Alpman E., Onat A., Yukselenturk Y., Hartomacıoğlu S.
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.99, pp.300-315, 2019 (SCI-Expanded)

VIII. **Experimental analysis of hybrid household refrigerators including thermoelectric and vapour compression cooling systems**
Soylemez E., Alpman E., Onat A.
INTERNATIONAL JOURNAL OF REFRIGERATION-REVUE INTERNATIONALE DU FROID, vol.95, pp.93-107, 2018 (SCI-Expanded)

IX. **Multiobjective aerodynamic optimization of a microscale ducted wind turbine using a genetic algorithm**

ALPMAN E.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.1, pp.618-629, 2018 (SCI-Expanded)

X. **SITE-SPECIFIC OPTIMIZATION OF A SMALL-SCALE HORIZONTAL AXIS WIND TURBINE VIA MICRO GENETIC ALGORITHM**
ALPMAN E., Kimilli M. O., Erisik A., Sahin E.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.34, no.1, pp.123-135, 2014 (SCI-Expanded)

XI. **AN APPLICATION OF RUNGE-KUTTA DISCONTINUOUS GALERKIN METHOD FOR FLOWS WITH STRONG DISCONTINUITIES**
Alpman E.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.33, no.1, pp.165-175, 2013 (SCI-Expanded)

XII. **BLAST WAVE SIMULATIONS USING EULER EQUATIONS AND ADAPTIVE GRIDS**
Alpman E.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.32, no.2, pp.1-9, 2012 (SCI-Expanded)

XIII. **MATHEMATICAL MODELING AND SIMULATION OF THE PREHEATING ZONE OF A TUNNELKILN**
MANÇUHAN E., KÜÇÜKADA K., ALPMAN E.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.31, pp.79-86, 2011 (SCI-Expanded)

XIV. **Mathematical Modeling and Simulation of the Preheating Zone of a Tunnl Kiln**
MANÇUHAN E., KÜÇÜKADA K., ALPMAN E.
Isi Bilimi Ve Teknigi Dergisi-Journal Of Thermal Science And Technology, vol.31, pp.79-86, 2011 (SCI-Expanded)

XV. **EFFECT OF THE FLOW CONDITIONS AND VALVE SIZE ON BUTTERFLY VALVE PERFORMANCE**
Sandalci M., MANÇUHAN E., ALPMAN E., KÜÇÜKADA K.
ISI BILIMI VE TEKNIGI DERGISI-JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.30, no.2, pp.103-112, 2010 (SCI-Expanded)

XVI. **An unstructured grid Reynolds stress model for separated turbulent flow simulations**
ALPMAN E., Long L. N.
INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS, vol.23, no.5, pp.377-389, 2009 (SCI-Expanded)

XVII. **Understanding ducted-rotor antitorque and directional control characteristics part II: Unsteady simulations**
ALPMAN E., LONG L. N., Kothmann B.
JOURNAL OF AIRCRAFT, vol.41, no.6, pp.1370-1378, 2004 (SCI-Expanded)

XVIII. **Understanding ducted-rotor antitorque and directional control characteristics - Part I: Steady-state simulation**
ALPMAN E., LONG L. N., Kothmann B.
JOURNAL OF AIRCRAFT, vol.41, no.5, pp.1042-1053, 2004 (SCI-Expanded)

XIX. **Frequency domain prediction of turbofan noise radiation**
ÖZYÖRÜK Y., ALPMAN E., Ahuja V., Long L. N.
Journal Of Sound And Vibration, vol.270, pp.933-950, 2004 (SCI-Expanded)

Articles Published in Other Journals

I. **Water Hammer Analysis in Pipelines with Open Source CFD Software OpenFOAM**
Istanbullu A., ALPMAN E.
Tesisat Mühendisliği, no.195, pp.26-36, 2023 (Peer-Reviewed Journal)

II. **Sonic Boom Prediction Code Development and Sonic Boom Predictions via Open Source CFD**

Software
ALPMAN E., KAVURMACIOĞLU L. A., EKEN S., İNCİ H., ÇAMUR Z., BİÇER B.
Havacılık ve Uzay Teknolojileri Dergisi, vol.15, no.2, pp.28-53, 2022 (Peer-Reviewed Journal)

III. **Computational Examination of Unsteady Cavitating Flow Characteristics on a 2D NACA66 Profile by Utilizing OpenFOAM®**
OĞUR S. A., ALPMAN E.
International journal of advances in engineering and pure sciences (Online), vol.34, no.2, pp.288-304, 2022 (Peer-Reviewed Journal)

IV. **Design and Construction of Atmospheric Particle Sampling System by Unmanned Aerial Vehicle**
Akkoyunlu B. O., Oruç İ., Alpman E., Doğan B., Baltacı H.
International journal of advances in engineering and pure sciences (Online), vol.33, no.1, pp.90-96, 2021 (Peer-Reviewed Journal)

V. **LARGE EDDY SIMULATION AND AEROACOUSTIC ANALYSIS FOR SIMPLE EXPANSION SILENCER LIKE GEOMETRIES**
ALPMAN E.
International Journal of Advances on Automotive and Technology, vol.2, pp.168-174, 2018 (Peer-Reviewed Journal)

VI. **AEROTHERMAL OPTIMIZATION OF SQUEALER GEOMETRY IN AXIAL FLOW TURBINES USING GENETIC ALGORITHM**
Deveci K., Maral H., Senel C. B., Alpman E., Kavurmacioglu L., Camci C.
JOURNAL OF THERMAL ENGINEERING, vol.4, no.3, pp.1896-1911, 2018 (ESCI)

VII. **Havacılıkta Sürdürülebilir Gelişme Göstergeleri**
ALPMAN E., Göğüş A. Y.
Sürdürülebilir Havacılık Araştırmaları Dergisi (SÜHAD), vol.2, pp.1-12, 2017 (Peer-Reviewed Journal)

VIII. **Prediction of Horizontal Axis Wind Turbine Acoustics**
KURULTAY A. A., ALPMAN E.
Marmara Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, pp.35-48, 2016 (Peer-Reviewed Journal)

IX. **AERODYNAMIC PERFORMANCE OF SMALL-SCALE HORIZONTAL AXIS WIND TURBINES UNDER TWO DIFFERENT EXTREME WIND CONDITIONS**
ALPMAN E.
JOURNAL OF THERMAL ENGINEERING, vol.1, no.3, pp.420-432, 2015 (ESCI)

X. **Computational Studies of Horizontal Axis Wind Turbines Using Advanced Turbulence Models**
KODY S., ALPMAN E., YILMAZ B.
MARMARA UNIVERSITY JOURNAL OF SCIENCE, vol.26, pp.36, 2014 (Peer-Reviewed Journal)

XI. **Effect of selection of design parameters on the optimization of a horizontal axis wind turbine via genetic algorithm**
ALPMAN E.
Journal of Physics: Conference Series, vol.524, no.1, 2014 (Scopus)

XII. **Akış koşulları ve vana çapının kelebek vana performans katsayılarına etkisi**
MANÇUHAN E., ALPMAN E., KÜÇÜKADA K.
Tesisat Mühendisliği, pp.53-61, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Thermal Bioeffect of Hybrid Microfluidic System Used for Particle and Cell Separation**
Yazdani A. M., Alijani H., Özbey A., Karimzadehkhouei M., Koşar A., Şişman A., Alpman E., Altay R.
in: Advances in Heat Transfer and Thermal Engineering , Wen Chuang,Yan Yuying, Editor, Springer, London/Berlin , Singapore, pp.321-324, 2021

II. **Effect of Non-Uniform Wake on the Exergy Efficiency Calculations for Wind Turbines**
Alpman E.

in: Multidisciplinary Approaches to Sustainability, S. Sinan Keskin,Müge Leyla Yıldız,Refika Bakoğlu, Editor, IJOPEC Publication, London, pp.85-99, 2017

III. **Aerodynamic and Performance Analysis of Drag-Driven Vertical-Axis Wind Turbines**
ALPMAN E., Canal Z., Baysal İ.
in: Towards 100 Renewable Energy: Techniques, Costs and Regional Case-Studies, Prof. Dr.Tanay S. Uyar, Editor, Springer, pp.227-232, 2017

IV. **Blast Wave Simulations with a Runge-Kutta Discontinuous Galerkin Method**
Alpman E.
in: Advances in Modeling of Fluid Dynamics, Prof. Dr. Chaoqun Liu, Editor, InTech, London, pp.229-254, 2012

Refereed Congress / Symposium Publications in Proceedings

I. **Aerodynamic Analysis of Onera M6 & RAE2822 airfoils with OpenFOAM**
Seyhan M. A., Koç O., ALPMAN E.
6th International Conference on Advances in Mechanical Engineering: ICAME 2021, İstanbul, Turkey, 20 October 2021, pp.1118-1126

II. **MARINE PROPELLER DESIGN INCLUDING CAVITATION EFFECTS**
Öziş Ö., ALPMAN E.
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 17 - 19 December 2019

III. **LARGE EDDY SIMULATION OF A DUCTED WIND TURBINE FOR AEROACOUSTIC PREDICTIONS**
Alpman E., Kavurmacıoğlu L. A.
10th Ankara International Aerospace Conference, Ankara, Turkey, 18 - 20 September 2019, pp.1

IV. **FLUTTER ANALYSIS AT TRANSONIC SPEEDS USING A COUPLED CFD-CSD SOLVER**
Alpman E., Kavurmacıoğlu L. A., Eken S.
10th Ankara International Aerospace Conference, Ankara, Turkey, 18 - 20 September 2019, pp.1

V. **Performance Improvement of an Axial Fan by Morphing Its Blades via Shape Memory Alloys**
Alpman E., Kaplan B. M., Akpınar M. S., Namlı O. C.
22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 September 2019, pp.1

VI. **Exergy Analysis of a Hybrid Household Refrigerator Including a Thermoelectric Cooling System**
Alpman E., Onat A., Söylemez E.
22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 September 2019, pp.1

VII. **Aerodynamic Performance of a Small Scale Vertical Axis Wind Turbine Under Unsteady Wind Conditions**
Alpman E., Kavurmacıoğlu L. A.
22nd Congress on Thermal Science and Technology, Kocaeli, Turkey, 11 - 14 September 2019, pp.1

VIII. **Deniz Pervanesi Kavitasyon Gürültüsünün Hesaplamalı Akışkanlar Dinamiği ile İncelenmesi**
ALPMAN E., KAVURMACIOĞLU L. A.
14. Ulusal Tesisat Mühendisliği Kongresi, Turkey, 16 - 20 April 2019

IX. **Açık Kaynak Kodlu Hesaplamalı Akışkanlar Dinamiği ile Borularda Su Darbesi Analizi**
İstanbullu A., ALPMAN E.
14. Ulusal Tesisat Mühendisliği Kongresi, İzmir, Turkey, 16 - 20 April 2019

X. **Aeroacoustic Analysis of an Air-Reed Instrument Using Large Eddy Simulation**
ALPMAN E., SÖYLEMEZ E.
4TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 19 - 21 December 2018

XI. **A DEPLOYMENT OF FILM COOLING HOLES ON A SQUEALER TURBINE BLADE TIP**
Yıldız F., Alpman E., Kavurmacıoğlu L. A.
International Symposium on Aircraft Technology, MRO Operations, İstanbul, Turkey, 25 - 28 November 2018

XII. **Application of Variable Pitching to the Blades of a Vertical Axis Wind Turbine for Performance Improvement**

ALPMAN E.
1st International Conference on Advances in Mechanical and Mechatronics Engineering (ICAMMEN 2018), 8 - 09 November 2018

XIII. **IMPROVED DELAYED DETACHED EDDY SIMULATION OF DEEP CAVITIES AT SUBSONIC FLOW CONDITIONS**
Tüzüner B., ALPMAN E., KAVURMACIOĞLU L. A.
1st International Conference on Advances in Mechanical and Mechatronics Engineering, 8 - 09 November 2018

XIV. **THE EFFECT OF PLACING VORTEX GENERATORS ONTHE SELF-STARTING PERFORMANCE OF DARRIEUS TYPEVERTICAL AXIS WIND TURBINE**
Ghassembaglou N., ALPMAN E., KAVURMACIOĞLU L. A.
Second International Congress on Multidisciplinary Studies, 4 - 05 May 2018

XV. **LARGE EDDY SIMULATION AND AEROACOUSTIC ANALYSIS FOR SIMPLE EXPANSION SILENCER LIKE GEOMETRIES**
ALPMAN E.
INTERNATIONAL CONFERENCE ON PROGRESSES IN AUTOMOTIVE TECHNOLOGIES 2018, 10 - 12 May 2018

XVI. **Effect of Non-Uniform Wake on the Exergy Efficiency Calculations for Wind Turbines**
ALPMAN E.
2nd International Sustainability Congress (ICS 2017), İstanbul, Turkey, 26 - 28 October 2017

XVII. **Aerodynamic Optimization of Small Scale Vertical Axis Wind Turbines for Maximum Exergy Efficiency**
ALPMAN E.
2nd International Sustainability Congress (ICS 2017), İstanbul, Turkey, 26 - 28 October 2017

XVIII. **Wind Farm Line Optimization: A First Step from Theory to Application**
DEVECİ K., ALPMAN E., BARUTÇU B.
II. International Energy Raw Materials and Energy Summit (INERMA), İstanbul, Turkey, 27 - 30 September 2017

XIX. **A Multi-Criteria Renewable Energy Diffusion Model for Turkey**
DEVECİ K., ALPMAN E.
II. International Energy Raw Materials and Energy Summit (INERMA), İstanbul, Turkey, 27 - 30 September 2017

XX. **A Multiobjective Aerodynamic Optimization of A Micro Scale Vertical Axis Wind Turbine**
Usanmaz H., ALPMAN E.
9th Ankara International Aerospace Conference, Ankara, Turkey, 20 - 22 September 2017

XXI. **Aerothermal Optimization of Squealer Geometry in Axial Flow Turbines using Genetic Algorithm**
DEVECİ K., MARAL H., ŞENEL C. B., ALPMAN E., KAVURMACIOĞLU L. A.
International Conference on Advances in Science ICAS 2016, 02 September 2016

XXII. **Aerodynamic Performance of Small Scale Horizontal Axis Wind Turbines under Extreme Wind Conditions**
ALPMAN E.
Energy Technologies Conference, ENTECH '14, 22 - 24 December 2014

XXIII. **Large Eddy Simulation of Turbulent Flows around a Horizontal Axis Wind Turbine using Different Sub Grid Scale Models**
KODY S. A. K., ALPMAN E., YILMAZ B.
International Conference on Wind Energy Science and Technology, RUZGEM 2013, 3 - 04 October 2013

XXIV. **Effect of the Presence of a Duct on the Performance of Small Scale Wind Turbines**
LALOĞLU Ç., ÖZTÜRK U., ALPMAN E.
10th EAWE Ph.D. Seminar on Wind Energy in Europe, 01 October 2014

XXV. **Effect of Selection of Design Parameters on the Optimization of a Horizontal Axis Wind Turbine via Genetic Algorithm**
Alpman E.
5th Science of Making Torque from Wind Conference, Copenhagen, Denmark, 18 - 20 June 2014, vol.524

XXVI. **Rüzgar Türbin Kanatlarının Aeroelastik Etkileri de Kapsayan Aerodinamik En İyileştirmesi**
KAPSAL Y., ALPMAN E.
19. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 9 - 12 September 2013

XXVII. **Computational Studies of Horizontal Axis Wind Turbines using Advanced Turbulence Models**
KODY S. A. K., ALPMAN E., YILMAZ B.
Proceedings of the Fourth International Conference on Mathematical and Computational Applications, 11 - 13 June 2013

XXVIII. **Horizontal Axis Wind Turbine Design Using Genetic Algorithm**
KIMILLI M. O., ERİŞİK A., ŞAHİN E., ALPMAN E.
2nd International 100% Renewable Energy Conference and Exhibition (IRENEC 2012), 28 - 30 June 2012

XXIX. **Effect on Number of Blades on the Performance of a Darrieus Type Vertical Axis Wind Turbine**
ERMİŞ H. M. A., ALPMAN E.
1st International 100% Renewble Energy Conference and Exhibition (IRENEC 2011), 6 - 08 October 2011

XXX. **Aerodynamic and Performance Analysis of Drag Driven Vertical Axis Wind Turbines**
ALPMAN E., CANAL Z., BAYSAL İ.
1st International 100% Renewble Energy Conference and Exhibition (IRENEC 2011), 6 - 08 October 2011

XXXI. **Tuğla Üretilen Tünel Kurutma ve Pişirme Fırınlarında Enerji ve Ekserji Analizi**
MANÇUHAN E., ALPMAN E.
18. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 7 - 10 September 2011

XXXII. **Exergy Analysis of Marmara University Engineering Faculty C Building**
ÖZDEMİR M. R., Alkan Ş., KALE S., Vural E., ALPMAN E.
18. Ulusal Isi Bilimi ve Teknigi Kongresi, Turkey, 7 - 10 September 2011

XXXIII. **AN APPLICATION OF DISCONTINUOUS GALERKIN METHOD FOR BLAST WAVE SIMULATIONS**
Alpman E.
10th ASME Biennial Conference on Engineering Systems Design and Analysis, İstanbul, Turkey, 12 - 24 July 2010, pp.239-246

XXXIV. **Blast Wave Simulations using Euler Equations and Adaptive Grids**
ALPMAN E.
5th Ankara International Aerospace Conference, 17 - 19 August 2009

XXXV. **Tünel Fırın Ön Isıtma Bölgesinin Matematiksel Modellenmesi ve Simülasyonu**
KÜÇÜKADA K., MANÇUHAN E., ALPMAN E.
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 24 - 27 June 2009

XXXVI. **Patlama Sonrası Oluşan Şok Dalgalarının Euler Denklemleri Kullanılarak Simülasyonu**
ALPMAN E.
17. Ulusal Isı Bilimi ve Tekniği Kongresi, Turkey, 24 - 27 June 2009

XXXVII. **Akış Koşulları ve Vana Çapının Kelebek Vana Performans Katsayılarına Etkisi**
SANDALCI M., MANÇUHAN E., ALPMAN E., KÜÇÜKADA K.
6. Pompa-Vana Kongresi, Turkey, 16 - 18 October 2008

XXXVIII. **Effectiveness of advanced coating systems for mitigating blast effects on steel components**
Chen C., Linzell D. G., Alpman E., Long L. N.
10th International Conference on Structures Under Shock and Impact, Algarve, Portugal, 01 May 2008, vol.98, pp.85-87

XXXIX. **Analysis of Pilot Workload Due to Ship Airwake Disturbances Using Coupled Flight Dynamics and CFD Analysis**
BRIDGES D. O., HORN J. F., ALPMAN E., LONG L. N.
AIAA Atmospheric Flight Mechanics Conference, 20 - 23 August 2007

XL. **Coupled flight dynamics and CFD analysis of pilot workload in ship airwakes**
Bridges D., Horn J. F., ALPMAN E., Long L. N.
AIAA Atmospheric Flight Mechanics Conference and Exhibit, 20 - 23 August 2007

XLI. **Computational Studies of Polyurea Coated Steel Plate under Blast Loads**
CHEN C. C., LINZELL D. G., LONG L. N., ALPMAN E.
9th US National Congress on Computational Mechanics, 23 - 26 July 2007

XLII. **Prediction of Blast Loads on a Deformable Plate Using Euler Equations**
ALPMAN E., LONG L. N., CHEN C. C., LINZELL D. G.

AIAA 18th Computational Fluid Dynamics Conference, 25 - 28 June 2007

XLIII. **Fully Coupled Simulations of the Rotorcraft Ship Dynamic Interface**
ALPMAN E., LONG L. N., BRIDGES D. O., HORN J. F.
AHS International 63rd Annual Forum and Display, 1 - 03 May 2007

XLIV. **Advanced Modeling and Control Design for Helicopter Shipboard Operations**
HORN J. F., BRIDGES D. O., LONG L. N., ALPMAN E.
HeliJapan 2006 AHS International Meeting on Advanced Rotorcraft Technology and Life Saving Activities, 01 October 2006

XLV. **Unstructured Reynolds Stress Model Solutions for Turbulent Flow around a BELL 214ST Fuselage**
ALPMAN E., LONG L. N.
AHS International 61st Annual Forum and Display, 1 - 03 June 2005

XLVI. **Separated Turbulent Flow Simulations Using a Reynolds Stress Model and Unstructured Meshes**
ALPMAN E., LONG L. N.
AIAA 43rd Aerospace Sciences Meeting and Exhibit, 10 - 13 January 2005

XLVII. **Unsteady RAH 66 Comanche Flowfield Simulations including Fan in Fin**
ALPMAN E., LONG L. N.
AIAA 16th CFD Conference, 23 - 26 June 2003

XLVIII. **Toward a Better Understanding of Ducted Rotor Antitorque and Directional Control in Forward Flight**
ALPMAN E., LONG L. N., KOTHMANN B. D.
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Non Academic Experience

Marmara Üniversitesi
Pennsylvania State University
Orta Doğu Teknik Üniversitesi