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Education Information

Doctorate, Cukurova University, Fen Bilimler Enstitüsü, Makine Mühendisliği Abd, Turkey 1994 - 1999

Postgraduate, Cukurova University, Fen Bilimler Enstitüsü, Makine Mühendisliği Abd, Turkey 1992 - 1994

Undergraduate, Istanbul Technical University, Uçak Ve Uzay Bilimler Fakültesi, Uçak Mühendisliği, Turkey 1987 - 1991

Dissertations

Doctorate, Experimental and Numerical Investigation of Gas-Particle Flow after a 90o Vertical-to-Horizontal Elbow, Cukurova University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Abd, 1999

Postgraduate, Sonlu Elemanlar Yöntemi ile Orifis Etrafındaki Akış Karakteristiklerinin Hesaplanması , Cukurova University, Fen Bilimleri Enstitüsü, Makine Mühendisliği Abd, 1994

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Aeronautical and Space Engineering, Aeronautical Engineering , Flight Sciences, Aerodynamics, Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Makine Mühendisliği, 2011 - Continues

Academic and Administrative Experience

Cukurova University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2011 - Continues

Cukurova University, Mühendislik-Mimarlık Fakültesi, Makine Mühendisliği, 2002 - 2011

Published journal articles indexed by SCI, SSCI, and AHCI

1. An experimental investigation of the flow control of a circular cylinder in near wake with parallel plates at $Re = 7500$

Durhasan T., Ekinci F., Firat E., AKILLI H.

International Journal of Heat and Fluid Flow, vol.106, 2024 (SCI-Expanded)

- II. **Experimental and Numerical Investigation of Flow Characteristics Around Complex Bridge Piers in Different Geometries**
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- III. **Near-surface particle image velocimetry measurements over a yawed slender delta wing**
Karasu I., TMSE S., TAŐCI M., őAHİN B., AKILLI H.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.235, no.16, pp.2466-2478, 2021 (SCI-Expanded)
- IV. **Experimental study on passive flow control of circular cylinder via perforated splitter plate**
Sahin S., Durhasan T., PINAR E., AKILLI H.
WIND AND STRUCTURES, vol.32, no.6, pp.613-621, 2021 (SCI-Expanded)
- V. **The impact of the pitching motion on the structure of the vortical flow over a slender delta wing under sideslip angle**
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- VI. **Investigation of crossflow features of a slender delta wing**
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- VII. **Flow past a hollow cylinder with two spanwise rows of holes**
Firat E., ZKAN G. M., AKILLI H.
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- VIII. **Flow comparison around horizontal single and tandem cylinders at different immersion elevations**
OZDIL N. F. T., AKILLI H.
OCEAN ENGINEERING, vol.189, 2019 (SCI-Expanded)
- IX. **Control of the flow past a sphere near a flat wall using passive jet**
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OCEAN ENGINEERING, vol.187, 2019 (SCI-Expanded)
- X. **Effect of Yaw Angles on Aerodynamics of a Slender Delta Wing**
KARASU I., őAHİN B., TAŐCI M., AKILLI H.
JOURNAL OF AEROSPACE ENGINEERING, vol.32, no.5, 2019 (SCI-Expanded)
- XI. **Supercritical water gasification of wastewater sludge for hydrogen production**
IBRAHIM A. B. A., AKILLI H.
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- XII. **The effect of shroud on vortex shedding mechanism of cylinder**
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APPLIED OCEAN RESEARCH, vol.84, pp.51-61, 2019 (SCI-Expanded)
- XIII. **PIV measurement downstream of perforated cylinder in deep water**
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- XIV. **Effects of Permeable Cylinder on the Flow Structure in Deep Water**
Sanli B. G., AKILLI H.
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- XV. **Investigation of interactions between a sphere wake and free surface**
Dogan S., Ozgoren M., Okbaz A., őAHİN B., AKILLI H.
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- XVI. **Effects of Trailing-Edge Attachment on the Flow Structure over a Generic Delta Wing**
CANPOLAT ., Yayla S., őAHİN B., AKILLI H.
JOURNAL OF AEROSPACE ENGINEERING, vol.30, no.5, 2017 (SCI-Expanded)

- XVII. **Control of Vortex Shedding Using a Screen Attached on the Separation Point of a Circular Cylinder and Its Effect on Drag**
ÖZKAN G. M., Firat E., AKILLI H.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.139, no.7, 2017 (SCI-Expanded)
- XVIII. **PIV measurements in the near wakes of hollow cylinders with holes**
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- XIX. **Passive flow control in the near wake of a circular cylinder using attached permeable and inclined short plates**
ÖZKAN G. M., Firat E., Akilli H.
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- XX. **Vortex street suppression of a circular cylinder using perforated semi-circular fairing in shallow water**
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EXPERIMENTAL THERMAL AND FLUID SCIENCE, vol.79, pp.101-110, 2016 (SCI-Expanded)
- XXI. **Flow behavior downstream of two side-by-side circular cylinders in shallow water**
AKAR M. A., Oguz B., AKILLI H., ŞAHİN B.
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- XXII. **Time-averaged near-wake of a yawed cylinder**
NAJAFI L., FIRAT E., AKILLI H.
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- XXIV. **Flow past a square prism with an upstream control rod at incidence to uniform stream**
Firat E., Akansu Y. E., AKILLI H.
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- XXV. **Flow structure around perforated cylinders in shallow water**
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JOURNAL OF FLUIDS AND STRUCTURES, vol.55, pp.52-63, 2015 (SCI-Expanded)
- XXVI. **Investigation of flow structure around a horizontal cylinder at different elevations in shallow water**
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- XXVII. **Shallow water experiments of flow past two identical square cylinders in tandem**
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- XXVIII. **Flow control downstream of a circular cylinder by a permeable cylinder in deep water**
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- XXIX. **Experimental and numerical studies of the flow around the Ahmed body**
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- XXX. **Experimental Study of Flow Structures around Side-by-Side Spheres**
PINAR E., ŞAHİN B., Ozgoren M., AKILLI H.
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- XXXI. **The effect of angle of attack on the flow structure over the nonslender lambda wing**
YAYLA S., CANPOLAT Ç., ŞAHİN B., AKILLI H.
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- XXXII. **Passive control of circular cylinder wake in shallow flow**
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- XXXV. **Flow around a cylinder surrounded by a permeable cylinder in shallow water**
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- XXXVI. **Flow structure over the yawed nonslender diamond wing**
ŞAHİN B., YAYLA S., CANPOLAT Ç., AKILLI H.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.23, no.1, pp.108-119, 2012 (SCI-Expanded)
- XXXVII. **Observation of the Vortical Flow over a Yawed Delta Wing**
CANPOLAT Ç., YAYLA S., ŞAHİN B., AKILLI H.
JOURNAL OF AEROSPACE ENGINEERING, vol.25, no.4, pp.613-626, 2012 (SCI-Expanded)
- XXXVIII. **Comparison of flow structures in the downstream region of a cylinder and sphere**
Ozgoren M., PINAR E., ŞAHİN B., AKILLI H.
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol.32, no.6, pp.1138-1146, 2011 (SCI-Expanded)
- XXXIX. **Flow characteristic of the horizontal cylinder placed on the plane boundary**
AKÖZ M. S., ŞAHİN B., AKILLI H.
FLOW MEASUREMENT AND INSTRUMENTATION, vol.21, no.4, pp.476-487, 2010 (SCI-Expanded)
- XL. **Yaw Angle Effect on Flow Structure over the Nonslender Diamond Wing**
YAYLA S., CANPOLAT Ç., ŞAHİN B., AKILLI H.
AIAA JOURNAL, vol.48, no.10, pp.2457-2461, 2010 (SCI-Expanded)
- XLI. **Artificial neural network approaches for prediction of backwater through arched bridge constrictions**
PINAR E., Paydas K., SEÇKİN G., AKILLI H., ŞAHİN B., Cobaner M., Kocaman S., AKAR M. A.
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- XLII. **Qualitative and quantitative measurements of horseshoe vortex formation in the junction of horizontal and vertical plates**
ŞAHİN B., AKILLI H., Karakus C., AKAR M. A., Ozkul E.
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- XLIII. **Dye Visualization of the Flow Structure over a Yawed Nonslender Delta Wing**
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JOURNAL OF AIRCRAFT, vol.46, no.5, pp.1818-1822, 2009 (SCI-Expanded)
- XLIV. **Flow structures around a three-dimensional rectangular body with ground effect**
Gürlek C., ŞAHİN B., ÖZALP C., AKILLI H.
WIND AND STRUCTURES, vol.11, no.5, pp.345-359, 2008 (SCI-Expanded)
- XLV. **Control of vortex shedding of circular cylinder in shallow water flow using an attached splitter plate**
AKILLI H., KARAKUŞ C., Akar A., ŞAHİN B., Tumen N. F.
JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, vol.130, no.4, 2008 (SCI-Expanded)
- XLVI. **Formation, structure, and development of near-field wing tip vortices**
Karakus C., AKILLI H., ŞAHİN B.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.222, pp.13-22, 2008 (SCI-Expanded)
- XLVII. **Horseshoe vortex system in the vicinity of the vertical cylinder mounted on a flat plate**
Sahin B., Ozturk N. A., Akilli H.
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- XLVIII. **Investigations of flow characteristics in a plate fin and tube heat exchanger model composed of single cylinder**

- Sahin B., AKKOCA A., ÖZTÜRK N. A., Akilli H.
INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol.27, no.3, pp.522-530, 2006 (SCI-Expanded)
- XLIX. **Effect of inlet port on the flow in the cylinder of an internal combustion engine**
Yasar A., Sahin B., Akilli H., Aydin K.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.220, no.1, pp.73-82, 2006 (SCI-Expanded)
- L. **Suppression of vortex shedding of circular cylinder in shallow water by a splitter plate**
Akilli H., Sahin B., Tumen N.
FLOW MEASUREMENT AND INSTRUMENTATION, vol.16, no.4, pp.211-219, 2005 (SCI-Expanded)
- LI. **The wind power potential of the eastern Mediterranean region of Turkey**
Sahin B., Bilgili M., Akilli H.
JOURNAL OF WIND ENGINEERING AND INDUSTRIAL AERODYNAMICS, vol.93, no.2, pp.171-183, 2005 (SCI-Expanded)
- LII. **Investigation of gas-solid flow structure after a 90 degrees vertical-to-horizontal elbow for low conveying gas velocities**
Akilli H., LEVY E., Sahin B.
ADVANCED POWDER TECHNOLOGY, vol.16, no.3, pp.261-274, 2005 (SCI-Expanded)
- LIII. **Investigation of laminar and turbulent flow through an orifice plate inserted in a pipe**
TUNAY T., Sahin B., Akilli H.
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- LIV. **Control of vortex breakdown by a coaxial wire**
Akilli H., Sahin B., ROCKWELL D.
PHYSICS OF FLUIDS, vol.15, no.1, pp.123-133, 2003 (SCI-Expanded)
- LV. **Vortex formation from a cylinder in shallow water**
Akilli H., ROCKWELL D.
PHYSICS OF FLUIDS, vol.14, no.9, pp.2957-2967, 2002 (SCI-Expanded)
- LVI. **Gas-solid flow behavior in a horizontal pipe after a 90 degrees vertical-to-horizontal elbow**
Akilli H., LEVY E., Sahin B.
POWDER TECHNOLOGY, vol.116, no.1, pp.43-52, 2001 (SCI-Expanded)
- LVII. **Vortex breakdown-edge interaction: Consequence of edge oscillations**
Sahin B., Akilli H., Lin J., ROCKWELL D.
AIAA JOURNAL, vol.39, no.5, pp.865-876, 2001 (SCI-Expanded)
- LVIII. **Control of vortex breakdown by a transversely oriented wire**
Akilli H., Sahin B., ROCKWELL D.
PHYSICS OF FLUIDS, vol.13, no.2, pp.452-463, 2001 (SCI-Expanded)
- LIX. **Finite element solution of laminar flow through square-edged orifice with a variable thickness**
Sahin B., Akilli H.
INTERNATIONAL JOURNAL OF COMPUTATIONAL FLUID DYNAMICS, vol.9, no.1, pp.85-88, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **Vortex Suppression Downstream of a Cylinder via Guide Vanes**
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- II. **Base Bleed Flow Control Tool for Circular Cylinders with three Side-By-Side Arrangements in Shallow Water**
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- IV. **Experimental Investigation Of Flow Structure Downstream Of Permeable Cylinders**
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- V. **Use of the Tea Wastes in Pleurotus Cultivation as an Alternative Substrate Material in Turkey under Conventional Controlled Climate**
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- VI. **The effect of the splitter plates on flow characteristics that are vertically placed to the flow between side by side cylinders in shallow water**
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PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.24, no.4, pp.582-585, 2018 (ESCI)
- VII. **Derin suda dairesel silindir arkasında meydana gelen akış yapısının örgü teller ile kontrol edilmesi**
OĞUZ B., AKAR A., PINAR E., AKILLI H., ŞAHİN B.
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- X. **Estimation of Aerodynamic Characteristics for a Horizontal Axis Wind Turbine**
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- XI. **DYE VISUALIZATION OF A YAWED SLENDER DELTA WING**
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- XIV. **Flow Control around Bluff Bodies by AttachedPermeable Plates**
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- XVII. **Sığ Suda Yanyana Sıralı İki Silindir Arkasındaki Daimi Olmayan Akış Yapısının İncelenmesi**

AKAR M. A., AKILLI H., ŞAHİN B.

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XIX. Unsteady Flow Characteristics Behind Two Side-By-Side Cylinders Arranged In Shallow Water

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XX. Sığ Suda Yan Yana Sıralı İki Silindir Arkasında Oluşan Akış Yapısının Pasif Yöntemle Kontrolü

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XXI. Effect of plates with different height to flow structure behind circular cylinders

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XXIII. İki Fazlı Katı Akış

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XXIV. Akışkanlar Mekaniği Uygulamalarında Parçacık Görüntülemeli Hız Ölçme Tekniği (PIV)

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XXV. Doğu Akdeniz Bölgesinin Rüzgar Hızı ve enerji Potansiyeli

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XXVI. Cisim Uyumlu Ağ Yapısı Tasarımının Kompleks Akış Geometrilere Uygulanışı

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Refereed Congress / Symposium Publications in Proceedings

I. Flow measurements in the wake of screen cylinders in shallow water

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18th European Turbulence Conference, Valencia, Spain, 4 - 06 September 2023, pp.94

II. Arat H.T., Karakuş C., Ali Koç, Nurhan Adil Öztürk N., Hüseyin Akıllı "Isı deđiřtiricileri

uygulamalarında kullanılan iki plaka arasında konumlandırılmış elips silindir arkasında oluşan akış yapısının deneysel incelemesi

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III. The influence of a transversely and coaxially oriented wire on the location of vortex breakdown

Taşcı M. O., Tümse S., Şahin B., Karasu İ., Akıllı H.

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