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Eğitim Bilgileri

Post Doktora, King Mongkut's University Of Technology Thonburi, Makina Fakültesi, Makina Mühendisliği Bölümü, Tayland 2006 - 2007

Doktora, Yıldız Teknik Üniversitesi, Makina Fakültesi, Makina Mühendisliği, Türkiye 1999 - 2006

Yüksek Lisans, Yıldız Teknik Üniversitesi, Makina Fakültesi, Makina Mühendisliği, Türkiye 1996 - 1999

Lisans, Yıldız Teknik Üniversitesi, Makina Fakültesi, Makina Mühendisliği, Türkiye 1992 - 1996

Yabancı Diller

İngilizce, B1 Orta

Yaptığı Tezler

Doktora, Düşey Borularda Yoğuşmada Isı Taşınım Katsayısının Araştırılması , Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2007

Yüksek Lisans, Kapalı olimpik yüzme havuzlarında iklim koşullarının sağlanması , Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 1999

Araştırma Alanları

Makina Mühendisliği, Enerji, Diğer Yenilenebilir Enerji Sistemleri, Termodinamik, Isı ve Madde Transferi, Isıtma, Soğutma ve Havalandırma , Isıl Sistemler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof.Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2020 - Devam Ediyor

Doç.Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2014 - 2020

Yrd.Doç.Dr., Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2011 - 2014

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 1997 - 2011

Mesleki Deneyim

Mevlana Değişim Programı Koordinatörü, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2018 - Devam Ediyor

Erasmus Koordinatörü, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2008 - 2014

Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Başkanı, Yıldız Teknik Üniversitesi, Makine Fakültesi, Makine Müh.Bölümü, 2007 - 2008

Verdiği Dersler

Isıl ve Mekanik Sistem Tasarımı, Lisans, 2018 - 2019

Akışkanlar Mekaniği 1, Lisans, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2017 - 2018, 2018 - 2019

Akıllı Binalarda Mekanik Tesilat ve Elemanları, Lisans, 2015 - 2016, 2017 - 2018, 2019 - 2020

Araştırma Yöntemleri ve Bilimsel Etik, Yüksek Lisans, 2019 - 2020

Soğutma ve İklimlendirme Esasları, Lisans, 2018 - 2019

Isı Transferi, Lisans, 2017 - 2018, 2018 - 2019, 2019 - 2020

İleri Termodinamik, Yüksek Lisans, 2019 - 2020

Akışkanlar Mekaniği 1, Lisans, 2019 - 2020

Thermodynamics, Lisans, 2018 - 2019

Isı Değiştiricileri, Lisans, 2012 - 2013, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2018 - 2019

Enerji Sistemlerinin II. Kanun Analizi ve Ekserji, Yüksek Lisans, 2015 - 2016, 2018 - 2019

İklimlendirme ve Akıllı Sistemler, Yüksek Lisans, 2017 - 2018, 2018 - 2019

Seminer, Yüksek Lisans, 2015 - 2016, 2016 - 2017

İklimlendirmede Yalıtım Sistemleri, Lisans, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018

Bina Otomasyonu ve İşletmesi, Lisans, 2015 - 2016, 2016 - 2017

Isı Transferi 1, Lisans, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015

Termodinamik 1, Lisans, 2013 - 2014

Konveksiyon ve Radyasyonda Özel Konular, Yüksek Lisans, 2012 - 2013

Thermodynamics 2, Lisans, 2011 - 2012

Fluid Mechanics, Lisans, 2011 - 2012

Termodinamik 2, Lisans, 2012 - 2013

Thermodynamics 1, Lisans, 2011 - 2012

Makina Mühendisliğine Giriş 2, Lisans, 2011 - 2012

Yönetilen Tezler

Dalkılıç A. S. , Taner T., Kojenerasyon Tesislerinde Kömür ile Biyokütle Kullanımının Kazan Verimine Etkisinin incelenmesi, Yüksek Lisans, Ş.Berber(Öğrenci), 2020

Dalkılıç A. S. , BİR MAHALİN TERMAL KONFOR ŞARTLARININ HESAPLAMALI AKIŞKANLAR DİNAMIĞI YÖNTEMİ İLE ANALIZI, Yüksek Lisans, S.ÖZSAĞIROĞLU(Öğrenci), 2020

Dalkılıç A. S. , Düz ve Helisel Borularda Koruge Yüzeylerin Kullanımının Isı Geçişi Karakteristiklerine Etkisinin Sayısal Olarak İncelenmesi, Yüksek Lisans, Ş.METİN(Öğrenci), 2020

Dalkılıç A. S. , AĞIR TİCARİ ARAÇLARDA RADYATÖR KAPASİTESİNİN DENEYSEL OLARAK TAYİNİ, Yüksek Lisans, H.FURKAN(Öğrenci), 2019

Dalkılıç A. S. , Yumurtacı Z., Döşemeden ısıtma ve soğutma sistemlerinin ısı transferi karakteristiklerinin incelenmesi, Doktora, Y.KARAKOYUN(Öğrenci), 2019

Dalkılıç A. S. , Yapay Sinir Ağları Yöntemiyle Doğalgaz Şehir Giriş İstasyonlarının Projelendirilmesi, Yüksek Lisans, V.BALIKÇI(Öğrenci), 2019

Dalkılıç A. S. , Borulu Tip Isı Değiştiricilerinde Laminar Akışta Nümerik Olarak Isı Geçişi Karakteristiklerinin Araştırılması,

Yüksek Lisans, O.DALLI(Öğrenci), 2019

Dalkılıç A. S. , Mikrokanallı ısı alıcılarında akan R134A'nın kaynamasının deneysel olarak araştırılması, Yüksek Lisans, C.ÖZMAN(Öğrenci), 2019

Dalkılıç A. S. , Bayrak M., Grafit bazlı bir nanosivinin ticari bir mikrokanalda soğutma performansının deneysel olarak incelenmesi, Doktora, O.YILDIZ(Öğrenci), 2018

Dalkılıç A. S. , Nanoakışkanlı çift borulu ısı değiştiricilerin optimizasyonu, Yüksek Lisans, G.ÖZÇELİK(Öğrenci), 2018

Dalkılıç A. S. , Yatay mikrokanatlı borularda kaynama ısı taşınım katsayısının ve basınç düşümünün araştırılması, Doktora, A.CELEN(Öğrenci), 2018

Dalkılıç A. S. , Karbon nanotüplü kompresör yağlarının dinamik viskozitelerinin deneysel incelenmesi, Yüksek Lisans, H.TARIK(Öğrenci), 2017

Dalkılıç A. S. , Mikrokanallı ısı değiştiricilerinde tek fazlı türbülanslı akışın deneysel incelenmesi, Yüksek Lisans, S.YILMAZ(Öğrenci), 2017

Dalkılıç A. S. , Theoretical investigation of the use of nanorefrigerants in various refrigeration cycles, Yüksek Lisans, M.AKTAŞ(Öğrenci), 2014

Dalkılıç A. S. , İç yüzeyi pürüzsüz ve mikrokanatlı düşey borular içinde akan saf suyun basınç düşümünün deneysel olarak belirlenmesi, Yüksek Lisans, A.ÇEBİ(Öğrenci), 2014

Dalkılıç A. S. , Experimental analysis of the single phase pressure drop characteristics of smooth and microfin tubes, Yüksek Lisans, A.CELEN(Öğrenci), 2013

Dalkılıç A. S. , Numerical investigation of the single phase forced convection heat transfer characteristics of nanofluids flowing in enhanced tubes, Yüksek Lisans, N.KAYACI(Öğrenci), 2012

Jüri Üyelikleri

Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, Trakya Üniversitesi, Mayıs, 2019

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Single phase flow heat transfer characteristics of quad-channel twisted tape inserts in tubes**
DALKILIÇ A. S. , Uluç B., Celik M. S. , CELEN A., Jumholkul C., Newaz K. S. , Wongwises S.
International Communications in Heat and Mass Transfer, cilt.118, 2020 (SCI Expanded İndekslerine Giren Dergi)
- **Effect of saturation temperature and vapor quality on the boiling heat transfer and critical heat flux in a microchannel**
DALKILIÇ A. S. , CELEN A., Erdoğan M., Sakamatapan K., Newaz K. S. , Wongwises S.
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- **Experimental investigation on two-phase heat transfer of R-134a during vaporization in a plate heat exchanger with rough surface**
Soontarapiromsook J., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Wongwises S., Ahn H. S.
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- **Two-phase flow boiling in a microfluidic channel at high mass flux**
Keepaiboon C., DALKILIÇ A. S. , Mahian O., Ahn H. S. , Wongwises S., Mondal P. K. , Shadloo M. S.
PHYSICS OF FLUIDS, cilt.32, 2020 (SCI İndekslerine Giren Dergi)
- **Effect of geometrical parameters on the evaporative heat transfer and pressure drop of R-134a flowing in dimpled tubes**
Aroonrat K., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Ahn H. S. , Wongwises S.
HEAT AND MASS TRANSFER, 2020 (SCI İndekslerine Giren Dergi)
- **Experimental investigation of the heat transfer and pressure drop characteristics of SiO₂/water nanofluids flowing through a circular tube equipped with free rotating swirl generators**
Jumholkul C., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Ahn H. S. , Jerng D., Wongwises S.
Heat and Mass Transfer/Waerme- und Stoffuebertragung, cilt.56, ss.1613-1626, 2020 (SCI İndekslerine Giren

Dergi)

● **Optimization of the finned double-pipe heat exchanger using nanofluids as working fluids**

DALKILIÇ A. S. , MERCAN H., Ozcelik G., Wongwises S.

JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, 2020 (SCI İndekslerine Giren Dergi)

● **An experimental investigation on heat transfer characteristics arising over an underfloor cooling system exposed to different radiant heating loads through walls**

Karakoyun Y., Açıkğöz Ö., Yumurtacı Z., Dalkılıç A. S.

APPLIED THERMAL ENGINEERING, cilt.164, 2020 (SCI İndekslerine Giren Dergi)

● **Heat transfer and fluid flow characteristics in a plate heat exchanger filled with copper foam**

Nilpueng K., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Ahn H. S. , Wongwises S.

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● **Single phase flow of nanofluid including graphite and water in a microchannel**

Yıldız O., Açıkğöz Ö., Yıldız G., Bayrak M., Dalkılıç A. S. , Wongwises S.

Heat and Mass Transfer/Waerme- und Stoffuebertragung, cilt.56, ss.1-24, 2020 (SCI İndekslerine Giren Dergi)

● **Experimental and numerical studies on heat transfer enhancement for air conditioner condensers using a wavy fin with a rectangular winglet**

Chimres N., Chittiphalungsri T., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Wongwises S.

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● **Experimental study on evaporative heat transfer and pressure drop of R-134a in a horizontal dimpled tube**

Aroonrat K., Ahn H. S. , Jerng D., Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Wongwises S.

International Journal of Heat and Mass Transfer, cilt.144, 2019 (SCI İndekslerine Giren Dergi)

● **Application of the heat pipe to enhance the performance of the vapor compression refrigeration system**

Nakkaew S., Chitipalungsri T., Ahn H. S. , Jerng D. W. , Asirvatham L. G. , DALKILIÇ A. S. , Mahian O., Wongwises S.

CASE STUDIES IN THERMAL ENGINEERING, cilt.15, 2019 (SCI İndekslerine Giren Dergi)

● **An experimental investigation on heat transfer characteristics of graphite-SiO₂/water hybrid nanofluid flow in horizontal tube with various quad-channel twisted tape inserts**

Dalkılıç A. S. , Türk O. A. , Mercan H., Nakkaew S., Wongwises S.

International Communications in Heat and Mass Transfer, cilt.107, ss.1-13, 2019 (SCI İndekslerine Giren Dergi)

● **Effects of Sonication Time on the Stability and Viscosity of Functionalized MWCNT-Based Nanolubricants**

Dalkılıç A. S. , Küçükıldırım B. O. , Akdoğan Eker A., Yıldız F., Akpınar A., Jumpholkul C., Wongwises S.

Current Nanoscience, cilt.15, 2019 (SCI Expanded İndekslerine Giren Dergi)

● **Realistic experimental heat transfer characteristics of radiant floor heating using sidewalls as heat sinks**

Açıkğöz Ö., Karakoyun Y., Yumurtacı Z., Dukhan N., Dalkılıç A. S.

ENERGY AND BUILDINGS, cilt.183, ss.515-526, 2019 (SCI İndekslerine Giren Dergi)

● **Sizing charts of helical capillary tubes used in refrigeration and air conditioning**

Chingulpitak S., Mahian O., DALKILIÇ A. S. , Asirvatham L. G. , Wongwises S.

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● **Thermal performance of plate fin heat sink combined with copper foam**

Nilpueng K., Amani J., DALKILIÇ A. S. , Asirvatham L. G. , Mahian O., Wongwises S.

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● **Experimental study on the thermal conductivity of water-based CNT-SiO₂ hybrid nanofluids**

Dalkılıç A. S. , Yalçın G., Küçükıldırım B. O. , Öztuna S., Akdoğan Eker A., Jumpholkul C., Nakkaew S., Wongwises S.

International Communications in Heat and Mass Transfer, cilt.99, ss.18-25, 2018 (SCI İndekslerine Giren Dergi)

● **Experimental investigation on the viscosity characteristics of water based SiO₂-graphite hybrid nanofluids**

DALKILIÇ A. S. , AÇIKGÖZ Ö. , KÜÇÜKYILDIRIM B. O. , Eker A., Lüleci B., Jumpholkul C., Wongwises S.

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Dergi)

● **Investigation of boiling heat transfer characteristics of R134a flowing in smooth and microfin tubes**

Celen A., Cebi A., Dalkılıç A. S.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, cilt.93, ss.21-33, 2018 (SCI İndekslerine Giren Dergi)

● **A model of energy management analysis, case study of a sugar factory in Turkey**

Taner T., Sivrioglu M., Topal H., DALKILIÇ A. S. , Wongwises S.

SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, cilt.43, 2018 (SCI İndekslerine Giren Dergi)

● **Effect of surface roughness on the condensation of R-134a in vertical chevron gasketed plate heat exchangers**

Soontarapiromsook J., Mahian O., Dalkilic A. S. , Wongwises S.

EXPERIMENTAL THERMAL AND FLUID SCIENCE, cilt.91, ss.54-63, 2018 (SCI İndekslerine Giren Dergi)

● **Experimental investigation on the flow boiling of R134a in a multi-microchannel heat sink**

Dalkılıç A. S. , Ozman C., Sakamatapan K., Wongwises S.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, cilt.91, ss.125-137, 2018 (SCI İndekslerine Giren Dergi)

● **An experimental investigation devoted to determine heat transfer characteristics in a radiant ceiling heating system**

Koca A., Açıkgöz Ö., Çebi A., Çetin G., Dalkılıç A. S. , Wongwises S.

Heat and Mass Transfer/Waerme- und Stoffuebertragung, cilt.54, ss.363-375, 2018 (SCI İndekslerine Giren Dergi)

● **Experimental Study on the Stability and Viscosity for the Blends of Functionalized MWCNTs with Refrigeration Compressor Oils**

Dalkilic A. S. , Mahian O., Kucukyildirim B. O. , Eker A. A. , Ozturk T. H. , Jumpholkul C., Wongwises S.

CURRENT NANOSCIENCE, cilt.14, ss.216-226, 2018 (SCI İndekslerine Giren Dergi)

● **Experimental investigation of single-phase turbulent flow of R-134a in a multiport microchannel heat sink**

Dalkılıç A. S. , Mahian O., Yılmaz S., Sakamatapan K., Wongwises S.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, cilt.89, ss.47-56, 2017 (SCI İndekslerine Giren Dergi)

● **A complete evaluation method for the experimental data of flow boiling in smooth tubes**

Celen A., Dalkılıç A. S.

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, cilt.89, ss.108-121, 2017 (SCI İndekslerine Giren Dergi)

● **Prediction of frictional pressure drop of R134a during condensation inside smooth and corrugated tubes**

DALKILIÇ A. S. , Çebi A., AÇIKGÖZ Ö., WONGWISES S.

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● **An experimental study to determine the maximum efficiency index in turbulent flow of SiO₂/water nanofluids**

Jumpholkul C., Mahian O., Kasaeian A., DALKILIÇ A. S. , Wongwises S.

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● **Experimental investigation of frost issue on various evaporators having different fin types**

Olçay A. B. , Avci P., Bayrak E., Dalkilic A. S. , Wongwises S.

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● **Natural convection heat transfer from horizontal concentric and eccentric cylinder systems cooling in the ambient air and determination of inner cylinder location**

ATAYILMAZ Ş. Ö. , DEMİR H., SEVİNDİR M. K. , AĞRA Ö., Teke İ., DALKILIÇ A. S.

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- **Artificial neural network modeling of nanofluid flow in a microchannel heat sink using experimental data**
Tafarroj M. M. , Mahian O., Kasaeian A., Sakamatapan K., DALKILIÇ A. S. , Wongwises S.
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- **A novel ANN-based approach to estimate heat transfer coefficients in radiant wall heating systems**
AÇIKGÖZ Ö., Cebi A., DALKILIÇ A. S. , KOCA A., CETIN G., Gemici Z., WONGWISES S.
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- **Evaluation of the performance of the empirical correlations used to predict R134a's boiling frictional pressure drop inside smooth and corrugated tubes**
DALKILIÇ A. S. , Cebi A., Celen A., AWAD M. M. , WONGWISES S.
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- **Prediction of friction factor of pure water flowing inside vertical smooth and microfin tubes by using artificial neural networks**
ÇEBİ A., AKDOĞAN E., Celen A., DALKILIÇ A. S.
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- **Experimental investigation on the viscosity of Water-CNT and Antifreeze-CNT nanofluids**
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- **Determination of Optimum Velocity for Various Nanofluids Flowing in a Double-Pipe Heat Exchanger**
DALKILIÇ A. S. , AÇIKGÖZ Ö., GÜMÜŞ M. A. , WONGWISES S.
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- **AIR-SIDE PERFORMANCE OF A MICRO-CHANNEL HEAT EXCHANGER IN WET SURFACE CONDITIONS**
Srisomba R., Asirvatham L. G. , Mahian O., DALKILIÇ A. S. , Awad M. M. , Wongwises S.
THERMAL SCIENCE, cilt.21, ss.375-385, 2017 (SCI İndekslerine Giren Dergi)
- **Fundamental basis and implementation of shell and tube heat exchanger project design: condenser and evaporator study**
DALKILIÇ A. S. , AÇIKGÖZ Ö., TAPAN Ş., WONGWISES S.
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- **Empirical correlations for the determination of R134a's convective heat transfer coefficient in horizontal and vertical evaporators having smooth and corrugated tubes**
Dalkilic A. S. , CELEN A., Çebi A., Wongwises S.
INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER, cilt.76, ss.85-97, 2016 (SCI İndekslerine Giren Dergi)
- **Effect of hydrogen-diesel dual-fuel usage on performance, emissions and diesel combustion in diesel engines**
Karagoz Y., SANDALCI T., YÜKSEK L., DALKILIÇ A. S. , WONGWISES S.
ADVANCES IN MECHANICAL ENGINEERING, cilt.8, 2016 (SCI İndekslerine Giren Dergi)
- **An experimental study on two-phase flow patterns and heat transfer characteristics during boiling of R134a flowing through a multi-microchannel heat sink**
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- **Viscosity of nanofluids: A review of recent experimental studies**
Bashirnezhad K., Bazri S., Safaei M. R. , Goodarzi M., Dahari M., Mahian O., Dalkilica A. S. , Wongwises S.
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- **Prediction of graphite nanofluids' dynamic viscosity by means of artificial neural networks**
Dalkılıç A. S. , Cebi A., Celen A., Yıldız O., Açıköz Ö., Jumpholkul C., Bayrak M., Surana K., Wongwises S.

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● **Effect of the use of natural gas diesel fuel mixture on performance emissions and combustion characteristics of a compression ignition engine**

KARAGÖZ Y., SANDALCI T., KÖYLÜ Ü., DALKILIÇ A. S. , WONGWISES S.

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● **Pressure drop characteristics of R134a during flow boiling in a single rectangular micro-channel**

Keepaiboon C., Thiangtham P., Mahian O., DALKILIÇ A. S. , Wongwises S.

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● **Effects of hydrogen and methane addition on combustion characteristics, emissions, and performance of a CI engine**

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