Curriculum vitae

PROF. DR. E. FUAD KENT

Istanbul Technical University, Mechanical Engineering Faculty, Inonu Cad, No.87, 34437, Gumussuyu, Istanbul, TURKEY
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DATE OF BIRTH 02 December 1965

EDUCATION

Istanbul Technical University, Mechanical Engineering Faculty
Ph.D. Thesis **1994**
Experimental and numerical analysis of forced corner flows

Istanbul Technical University, Mechanical Engineering Faculty
M. Sci. Thesis **1988**
Performance evaluation of a compact air-to-air heat pump system

Istanbul Technical University, Mechanical Engineering Faculty
B. Sci. Thesis **1986**
A comparison of correlations of laminar and turbulent flow in tubes

AWARDS

TUBITAK NATO fellowship, Poitiers University, FRANCE	August 1993 – March 1994
British Council Award, Swansea University, UK	October 1994 – December 1994
Postdoctoral fellowship, Lehigh University, USA	February 1997 – June 1997
ITU Fellowship, Von Karman Institute for Fluid Mechanics, BELGIUM	August 2001 – December 2001
ITU Fellowship, Denmark Technical University (DTU)	June 2011-August 2011
YÖK- Fellowship Denmark Technical University (DTU)	October 2011-November 2011

TEACHING EXPERIENCE

Istanbul Technical University, Mechanical Engineering Faculty
Full Professor of Mechanical Engineering **2009-Present**
Lecturer – Thermodynamics, Heat transfer, turbo machinery **1996-Present**
[Developed syllabus and overall course structure, and administered all grades.]
Teaching assistant - Thermodynamics, Heat transfer, turbo machinery, computer programming **1987-1996**
[Collaborated on curriculum and exam development, met with students upon request, and graded all written work, including final exam papers.]

INTERNATIONAL JOURNALS PAPERS

1. E. F. Kent, Numerical analysis of laminar natural convection in isosceles triangular enclosures, PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART C, JOURNAL OF MECHANICAL ENGINEERING SCIENCE, 2008.
2. E. F. Kent, Numerical analysis of laminar natural convection in isosceles triangular enclosures for cold base and hot inclined walls, MECHANICS RESEARCH COMMUNICATIONS, 2008
3. E. F. Kent, E. Asmaz, S. Özerbay, Laminar natural convection in right triangular enclosures, HEAT and MASS TRANSFER, Vol.44, No.2, pp.187-200, December 2007.
4. S. Kent, E.F. Kent, Microwave Heating of Dielectric Objects, JOURNAL OF MICROWAVE POWER AND ELECTROMAGNETIC ENERGY, Vol.37, No.2, pp. 63-71, 2002.
5. E.F. Kent, Flow visualization experiments in a V-shaped channel bounded by a cylindrical surface, JOURNAL OF THE PHYSICAL SOCIETY OF JAPAN 68 (6): 1887-1890, 1999.
6. E.F. Kent, Performance evaluation of a compact air-to-air heat pump, ENERGY CONVERSION AND MANAGEMENT 38 (4): 341-345 MAR 1997.
7. E.F. Kent, A comparison of visualization of Stokes flow in a V-shaped and rectangular channel, FLUID DYNAMICS RESEARCH 18 (6): 307-312, 1996.
8. E.F. Kent, Satisfaction of boundary conditions on complex channel walls with quadratic minimization method, MATHEMATICAL & COMPUTATIONAL APPLICATIONS, Vol.1, No:1, pp. 60-65, 1996.
9. E.F. Kent, Thermodynamic analyses of the CFC-12 and HFC-134A refrigeration cycles - Comment ENERGY 21 (6): 519, 1996.

10. E.F. Kent, A.K. Dağsöz, A comparison of correlations of experimental results for forced convection entrance region laminar flow in tubes, MODELLING AND SIMULATION, AMSE PRESS, Vol. 3C, pp. 73-92, 1988.

INTERNATIONAL CONFERENCE PAPERS

1. E. F. Kent, Comparative Assessment of HFC-134a, HCFC-22 and CFC-12 and Their Irreversible Losses for a Compact Air-to Air Heat Pump System, The 2nd International Exergy, Energy and Environment Symposium (IEEES2), 3-7 July 2005, Kos, GREECE
2. E. F. Kent, E. Asmaz, S. Özerbay**,** Finite element solution of natural convection in triangular enclosures, *IV. International Conference on Computational Heat and Mass Transfer,* Paris, 17-20 May 2005, p. 45-47, FRANCE
3. E. Fuad Kent, Flow visualization experiments of cellular Stokes flows induced by rotation of a cylinder variously positioned inside channels, XXI International Congress of Theoretical and Applied Mechanics 15 - 21 August 2004, Warsaw, POLAND
4. E. Fuad Kent, Sedef Kent, "Numerical Modeling of Microwave Heating in Processing of Various Materials" Proceedings of THE ASME-ZSIS International Thermal Science Seminar II, 13-16 June 2004, pp. 907-912, Bled SLOVENIA
5. E.F. Kent, Experimental investigation of cellular Stokes flow induced by rotation of a cylinder in a wedge shaped channel, 4th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, ExHFT4, June 2-6, 1997, Vol.3, pp. 1519-1523, Brussels, BELGIUM
6. E.F. Kent, S. Kent, Microwave Heating of dielectric materials, 9. ISTET Conference, pp.192-195, 9-11 June 1997, Palermo, ITALY
7. E.F. Kent, Numerical analysis of cellular Stokes flow in a V-shaped channel, Tenth International Conference on Numerical Methods in Laminar and Turbulent Flow, Vol. X, pp. 311-322, 21-25 July 1997, Swansea, U.K.
8. E.F. Kent, S. Kent, Microwave heat treatment for dielectric waste materials, Florence World Energy Research Symposium, FLOWERS'97, 30 July 1 Aug. 1997, pp.331-337, Florence, ITALY
9. S. Kent, E.F. Kent, "Uses Of High Sensitivity Analog Sensors For Fire Prevention", The First International Conf. on Fire and Safety, 20-21 May 1996, pp:87-90, Istanbul, TURKEY
10. E.F. Kent, S. Kent, "A Comparison of Heat and Smoke Detectors for Intelligent Buildings", The First International Conf. on Fire and Safety, 20-21 May 1996, pp:91-96, Istanbul, TURKEY

INTERNATIONAL BOOK CHAPTERS

1. E.F. Kent, S. Kent, Numerical Modelling of Microwave Heating of Dielectric Materials, Advanced Comp. Methods in Heat Transfer VIII. Editors: B. Sunden, C.A. Brebbia, A.C. Mendes, pp. 371-379, WIT Press 2004, Southampton, Boston.
2. E. F Kent, Experimental and numerical investigation of cellular Stokes flow in a special wedge shaped channel bounded by a cylindrical surface, pp.21-27, Editors: M. Rahman, C.A. Brebbia, Advances in Fluid Mechanics, Computational Mechanics Publications. Southampton, Boston, 1996

LANGUAGES

English – speak fluently and read/write with high proficiency
French and Italian.-. speak, read, and write with basic competence

MEMBERSHIPS

Turco-British Fellowship Society
Turkish Society for Thermal Sciences and Technology

REVIEWER OF THE INTERNATIONAL JOURNALS

International Journal of Thermal Sciences
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science
Computers and Mathematics with Applications
Energy
International Journal of Numerical Methods for Heat and Fluid Flow
Numerical Heat Transfer
Journal of Thermal Sciences and Technology
Heat and Mass Transfer