## CONFERENCE PUBLICATIONS

- (1) C. H. Huang, "A Direct Integration Approach for Simultaneously Estimating Spatially Varying Thermal Conductivity and Heat Capacity for the Two Dimensional Orthotropic Material", 第十六屆力學會議, pp.353-361, Keelong, 1992.
- (2) C. H. Huang and T. M. Ju, "The Estimation of Periodic Contact Conductance Between Exhaust Valve and Seat in a Marine Diesel Engine", First International Symposium on Marine Engineering, pp.281-313, Taipei, 1992.
- (3) C. H. Huang and T. M. Ju, "Two Dimensional inverse Problem of Determining the Interface Contact Conductance Between Exhaust Value and Seat in an Internal Combustion Engine", 22nd International Thermal Conductivity Conference, Tempe, AZ, USA, Nov. 7-10, pp. 985-997, 1993.
- (4) C. H. Huang and T. M. Ju, "Inverse Problem of Simultaneously Estimating the Periodic Contact Conductance and Heat Transfer Coefficient of Exhaust Gases Between the Exhaust Value and Seat in an Internal Combustion Engine", 第十七 屆力學會議, pp.353-361, Taipei, 1993.
- (5) C. H. Huang and T. M. Ju, "Inverse Problem of Determining the Periodic Thermal Contact Conductance Between Exhaust Value and Seat in an Internal Combustion Engine", 29th National Heat Transfer Conference, Atlanta, GA, USA, ASME Paper No. 93-HT-35, Aug. 8-11, 1993.
- (6) C. H. Huang and J. Y. Yan, "An Inverse Problem of Estimating Temperature Dependent Thermal Conductivity in Composite Material", Vol. 4, pp. 264-270, ISOPE'95, the Hague, Netherlands, June 11-16, 1995.
- (7) C. H. Huang and W. Y. Shih, "A Boundary Element Based Solution of An Inverse Elasticity Problem by Conjugate Gradient and Regularization Method", ISOPE'97, Vol. IV, pp. 388-395, Honolulu, Hawaii, USA, May 25-30, 1997.
- (8) C. H. Huang and C. C. Tsai, "A Shape Identification Problem in Estimating Time-Dependent Irregular Boundary Configurations", ASME 1997 (32<sup>nd</sup>) National Heat Transfer Conference, HTD-Vol. 340, pp. 41-48, Baltimore, MD, USA, August 10-12, 1997.
- (9) S. K. Chou, C. H. Huang, C. C. Chiang and P. C. Huang, "An Inverse Geometry Design Problem in Optimizing the Hull Surfaces", Practical Design of Ships and Mobile Unit 98 Conference, the Hague, Netherlands, pp. 411-419, 1998.
- (10) C. H. Huang and T. Y. Hsiung" An Inverse Design Problem of Estimating Shape of Cooling Passages in Turbine Blades ", Twenty-First Conference on the Boundary Element Method, BEM 21, pp. 375-384, Oxford University, 1999.
- (11) C. H. Huang, "A Generalized Inverse Nonlinear Force Vibration Problem for Simultaneously Estimating the Time-Dependent External Forces, Sixth

- International Symposium on Marine Engineering, TOKYO 2000, pp. 68-74, Tokyo, Japan, October 23-27, 2000.
- (12) C. H. Huang, "An Inverse Geometry Problem in Estimating Frost Growth", International Conference on Computational Engineering and Science, pp. 21-27, Los Angeles, CA, USA, August 21-25, 2001.
- (13) C. H. Huang, "An Inverse Vibration Problem for Simultaneously Estimating the Time-Dependent Stiffness Coefficients", 4<sup>th</sup> International Conference on Inverse Problems in Engineering, pp. 235-242, Angra dos Reis, Brazil, May 26-30, 2002.
- (14) P. F. Chen and C. H. Huang, "An Inverse Hull Design Problem in Minimizing the Wash Wave of a Catamaran", ISOPE'03, pp. 392-399, Honolulu, Hawaii, USA, May 25-30, 2003.
- (15) L. F. Saker, H. R. B. Orlande and C. H. Huang, "Simultaneous Estimation of The Spacewise and Timewise Variations of Mass and Heat Transfer Coefficients in Drying", Inverse Problems, Design and Optimization Symposium, pp. 134-143, Rio de Janeiro, Brazil, 2004, March 17-19, 2004.
- (16) L. F. Saker, H. R. B. Orlande and C. H. Huang, "Analysis of Different Kinds of Measurements on the Estimation of Time Dependent Mass and Heat Transfer Coefficients in Drying", 2004 ASME International Mechanical Engineering Congress & Exposition (IMECE'04), Anaheim, California, USA, November 13-19, 2004.
- (17) C. H. Huang Y. L. Tsai and H. M. Chen, "A 3-D Inverse Problem in Estimating the Time-Dependent Heat Transfer Coefficients for Plate Fins", 5<sup>th</sup> International Conference on Inverse Problems in Engineering, H05, pp. 1-10, Cambridge, U. K., July 11-15, 2005.
- (18) C. H. Huang and C.C. Shih, "A Shape Identification Problem in Estimating Simultaneously Two Interfacial Configurations in a Multiple Region Domain", 5<sup>th</sup> International Conference on Inverse Problems in Engineering, H04, pp. 1-9, Cambridge, U. K., July 11-15, 2005.
- (19) C. H. Huang, Hung-Chi Lo and Hsi-Mei Chen, "A Three-Dimensional Inverse Problem in Predicting the Heat Fluxes Distribution in the Cutting Tools", 7th International Symposium on Marine Engineering, sec. 53-4, Tokyo, October 24-28, 2005.
- (20) C. H. Huang, Shin-Shian Wu and Hsi-Mei Chen, "An Inverse Hyperbolic Heat Conduction Problem in Estimating Surface Heat Flux by Conjugate Gradient Method", 7th International Conference on Hydrodynamics, October 4-6, Ischia, Italy, 2006.
- (21) C. H. Huang and Shin-Shian Wu, "An Iterative Regularization Method in Determining the Surface Heat Flux for A Hyperbolic Heat Conduction Problem",

- International Forum on Systems and Mechatronics, December 6-8, Tainan, Taiwan, 2006.
- (22) C. H. Huang and Chien-Yu Lin, "An Inverse Technique in Estimating the Unknown Heat Generation for a Hyperbolic Conduction Problem", Second International Conference on Modeling, Simulation and Applied Optimization, March 24-27, The Petroleum Institute, Abu Dhabi, UAE, 2007.
- (23) C. H. Huang and M. T. Chaing, "A Three-Dimensional Shape Identification Problem in Determining the Space and Time-Dependent Irregular Boundary Geometry", 6<sup>th</sup> International Conference on Inverse Problems in Engineering, June 15-19, Dourdan, France, 2008.
- (24) C. H. Huang, C.A. Chen and H. M. Chen, "The Shape Identification Problem in Estimating the Internal Geometry of A Three-Dimensional Cavity", 8<sup>th</sup> International Conference on on Hydrodynamics, pp. 599-606, Sept. 30 –Oct. 3, Nantes, France, 2008.
- (25) C. H. Huang and H. H. Wu, "A Fin Design Problem in Determining the Optimum Shape of Non-Fourier Spine and Longitudinal Fins", ICCES'09, April 8 –11, Phuket, Thailand, 2009.
- (26) C. H. Huang and Y. L. Chung, "An Optimal Fin Design Problem in Estimating the Shape of Spine and Longitudinal Fully Wet Fins", WCSMO-08, June 1 –5, Lisbon, Portugal, 2009.
- (27) C. H. Huang and Chia-Ying Liu, "A Three-Dimensional Shape Identification Problem in Estimating the Unknown Interfacial Surface for a Multiple Region Domain", ASCHT 2009, Oct. 20-23 Cheju, Korea, 2009.
- (28) C. H. Huang and Wei-Lun Chang, "An Inverse Problem in Estimating the Volumetric Heat Generation for A Three-Dimensional Encapsulated Chip", ISCM-EPMESC, Nov. 30 to Dec. 3, Hong Kong and Macau, 2009.
- (29) C. H. Huang and Y.L. Chung, "An Optimal Fin Design Problem in Estimating the Shapes of Longitudinal and Spine Fully Wet Fins, ICCES'10, March 28 to April 1, Las Vegas, USA, 2010.
- (30) C. H. Huang, H. M. Chen and C. Y. Liu, "A Shape Identification Problem in Estimating the Unknown Interfacial Surface for a Multiple Region Domain, ICHD 2010, October 11 to 15, Shanghai, China, 2010.
- (31) C. H. Huang, C. T. Wuchiu and H. M. Chen, "An Inverse Geometry Problem in Determining the Interfacial Surfaces of a Three Layers Structure Based on the Desired System Heat Flux, FDTT 2011, pp. V2-348 V2-352, April 1 to 3, Bali, Indonesia, 2011.

- (32) C. H. Huang and M. Y. Lee, "An Inverse Problem in Estimating the Reaction Functions and Solute Concentration Simultaneously in A Reversible Process,

  THE ASIAN SYMPOSIUM ON COMPUTATIONAL HEAT TRANSFER AND FLUID FLOW
   2011, PP. 22–26 SEPTEMBER 2011, KYOTO, JAPAN
- (33) C. H. Huang, M.Y. Lee and H. M. CHEN "Estimation of the Acid and Salt Diffusivities for Polymer Solution using Inverse Algorithm in A Wet Spinning Process, 16TH WSEAS INTERNATIONAL CONFERENCE ON COMPUTERS, JULY 14-17, KOS ISLAND, GREECE, 2012
- (34) C. H. Huang and C. H. Wang "The Design of Uniform Tube Flow Rates for Z-type Compact Parallel Flow Heat Exchangers, 23rd International Symposium on Transport Phenomena, Auckland, New Zealand, 19–22 November, 2012.
- (35) C. H. Huang, C. H. Wang and S. Kim "An Optimum Design Problem of a Plate-Fin Microdevice for Heterogeneous Catalytic Reaction, The 4th Asian Symposium on Computational Heat Transfer and Fluid Flow, Hong Kong, 3-6 June, 2013
- (36) C. H. Huang and C. H. Wang "An Optimal Design Problem on Improving the System Uniformity Flow Rate for U-type Compact Heat Exchangers, ACE-X 2013, July 1 –4, Madrid, Spain, 2013.
- (37) C. H. Huang and Y. H. Chen "An Impingement Heat Sink Module Design Problem to Determine Optimal Non-Uniform Fin Heights and Widths, International Conference on Engineering and Applied Science, Osaka, Japan, 7-9 November, 2013.
- (38) Cheng-Hung Huang, Chien-Tsuen Lee and Hsi-Mei Chen "A Three-Dimensional Inverse Problem to Estimate Simultaneously Six Internal Heat Fluxes for A Square Combustion Chamber with Fins, 8th International Conference on Advanced Computational Engineering and Experimenting (ACE-X2014), Osaka, Japan, 7-9 November, 2013.
- (39) Cheng-Hung Huang and Hsueh-Min Hsu "An Inverse Design Problem in Estimating the Three-Dimensional Optimal Filler Geometry for Maximum Thermal Conductivity", 2014 Hong Kong International Conference on Engineering and Applied Science, December 29 –31, Hong Kong, China, 2014.
- (40) Cheng-Hung Huang, Chien-Tsuen and Yun-Lung Chung "An Inverse Heat Conduction Problem to Determine Six Internal Heat Fluxes Simultaneously in A Square Combustion Chamber", (IFSM-2014), October 12- 15, 2014, Taiwan.
- (41) Cheng-Hung Huang and H.M. Hsu "A Shape Design Problem to Determine the Optimal Three-Dimensional Filler Geometry for Maximum System Thermal Conductivity", 9th International Conference on Advanced Computational Engineering and Experimenting (ACE-X2015), 29th June 2nd July, Munich,

- Germany, 2015.
- (42) Cheng-Hung Huang and Po-Ching Chiang "A Design Problem to Estimate the Optimal Shape and Position for Vortex Generators", International Scientific Conference on Engineering and Applied Sciences (ISCEAS 2016), May 24-26, Beijing, China, 2016.
- (43) Cheng-Hung Huang and Yun-Lung Chung "The Design of Optimum Shapes for Nonlinear Partially Wet Annular Fins", 2016 Asia-Pacific Conference on Engineering and Applied Science, 25-27 August, Tokyo, Japan, 2016.
- (44) Cheng-Hung Huang\* and Guan-Jie Wang "An Inverse Problem in Determining the Design Variables of the Fin Shape for Heat Sinks", 2017 Asian Conference on Engineering and Natural Sciences, January 19-21, 2017, Hokkaido, Japan
- (45) Cheng-Hung Huang\* and Ting-Rui Chang "Optimal Design of Basin Type Still for Maximum Productivity", 2018 International Conference for Multiple Academic Disciplines, July 9-11, 2018, Geneva -Switzerland
- (46) Cheng-Hung Huang\* and Yun-Lung Chung "A Fin Shape Design Problem for Partially Wet Annular Fins with Temperature-Dependent Thermal Properties", 2018 12th International Conference on Advanced Computational Engineering and Experimenting, July 1-5, 2018, Amsterdam, The Netherlands.
- (47) Cheng-Hung Huang "Engineering Applications for the Inverse Design Problems", 2019 ACEAIT 2019, Annual Conference on Engineering and Information Technology, March 26-28, 2019 in Kyoto, Japan.