

曾建洲教授

研究室:流體力學研究室 [工 1021]

辦公室位置:工 3023B

聯絡電話:07-5252000 - 4238

學歷:University of Michigan,

Department of Mechanical

Engineering, PhD

email : tsengch@mail.nsysu.edu.tw



學經歷與研究專長(C.C. Tseng)

學經歷與研究專長：

PhD degree

Department of Mechanical Engineering, University of Michigan, Ann Arbor, Michigan

PhD thesis: Modeling of turbulent cavitating flows

Master of Science

Department of Mechanical Engineering, Thermoscience Division, College of Engineering, National Taiwan University

Bachelor of Science In Engineering

Department of Mechanical Engineering, College of Engineering, National Taiwan University (NTU)

Chien-Chou Tseng has received his B.S. and master degree in the mechanical engineering department from National Taiwan University. After that, he became a teaching assistant in his department for one year to conduct some undergraduate level experiments, and he also helped faculty to teach and grade for some courses related to fluid dynamics area. He came to USA (University Michigan in Ann Arbor) to pursue his PhD degree and graduated in 2010.

Chien-Chou Tseng has joined Department of Mechanical and Electro-Mechanical Engineering of NSYSU in 2011, and mainly focused his research on computational fluid dynamics (CFD) and other thermal-fluid related topics.

講授科目(C.C. Tseng)

Heat Transfer

Fluid Mechanics

Engineering Mathematics

研究計畫(C.C. Tseng)

100 年度 拉格朗日連結結構對多相流動態行為分析之運用

101 年度 空蝕模擬之研究及減輕空蝕強度之方法

104 年度 新空蝕模型之發展與三維非穩態空蝕流場之分析

期刊論文(C.C. Tseng)

Journals

1. Chien-Chou Tseng and Hou-An Hu. (2015, Dec). Flow dynamics of a Pitching

Foil by Eulerian and Lagrangian Viewpoints. *AIAA Journal*, Ahead of Print. .

(SCI, 4/30, Engineering, Aerospace). MOST 102-3113-P-006-011. 本人為第一

作者、通訊作者.

2. Chien-Chou Tseng, Cheng-Jui Li (2015, Dec). Numerical Investigation of the

inertial loss coefficient and the porous media model for the flow through the

perforated sieve tray. *Chemical Engineering Research & Design*. (Accepted).

(SCI, 41/135 ENGINEERING, CHEMICAL 41/135). 本人為第一作者、通訊作

者.

3. Huang, Yi-sung ; Tseng, Chien-chou ; Chen, Chien-cheng (2015, Dec).

Numerical Simulation of the Flue Gas Desulfurization in the Sieve Tray Tower.

China Steel Technical Report , 28; pp 52-57.

4. Chien-Chou Tseng, Yu-En Cheng (2015, Nov). Numerical investigations of the

vortex interactions for a flow over a pitching foil at different stages. *Journal of*

Fluids and Structures, 58, 2015, pp 291-318.. (SCI, 20/130 ENGINEERING,

MECHANICAL). MOST 102-3113-p-006-011. 本人為第一作者、通訊作者.

5. Jiun-Jih Miao, Sin-An Lin, Jyun-Hao Fong, Chung-Chuan Lin, Tzong-Shyng

Leu, Ta-Chung Wang and Chien-Chou Tseng (2015, Sep). Wake Characteristics of a Model Wind Turbine and an Actuator Disk Model . *Journal of Aeronautics, Astronautics and Aviation*, 47(3), p307-313.

6. Chien-Chou Tseng, Li-Jie Wang (2014, Nov). Investigations of empirical coefficients of cavitation and turbulence model through steady and unsteady turbulent cavitating flows. *Computers & Fluids*, 103(1), 2014, pp 262-274. (SCI, 48/ 137 MECHANICS). MOST 101-2221-E-110-045-MY2. 本人為第一作者、通訊作者.

7. Leu Tzong-Shyng, Yo Jui-Ming, Tsai Yi-Ting, Miao Jiu-Jih, Wang Ta-Chung, Tseng Chien-Chou (2014, Nov). Assessment of IEC 61400-1 normal turbulence model for wind conditions in Taiwan west coast areas . *International Journal of Modern Physics: Conference Series*, Vol 34 (2014), 1460382 (8 pages). MOST 102-3113-p-006-005.

8. Tang, JN., Tseng, CC., and Wang NF (2012, Jun). Lagrangian-based investigation of multiphase flows by finite-time Lyapunov exponents. *Acta Mechanica Sinica*, Vol 28(3), PP 612-624. (SCI, 95/249, mechanical engineering). NSC 100-2218-E-110-007. 本人為通訊作者.

9. Shyy, W., Cho, YC., Du, W., Amit, G., Tseng, CC., and Sastry, AM. (2011, Nov). Surrogate-Based Modeling and Dimension Reduction Techniques for Multi-Scale Mechanics Problems. *Acta Mechanica Sinica*. (SCI, 95/249, mechanical engineering).

10. Wei, Y.*, Tseng, CC., and Wang, G. (2011, Aug). Turbulence and Cavitation Models for Time-Dependent Turbulent Cavitating Flows. *Acta Mechanica Sinica*, 27(4):473-487 . (SCI, 95/249, mechanical engineering).

研討會論文

1. Chien-Chou Tseng (2014, Apr). Flow structures Analysis of Turbulent Cavitating Flows. Computational Engineering and Science for Safety and Environmental Problems 13-16 April 2014 / Sendai International Center, Sendai, Japan , 日本仙台. MOST 101-2221-E-110-045-MY2. 本人為第一作者、通訊作者.
2. Tang, JN., and Tseng, CC. (2011, Dec). Lagrangian-Based Investigation of Multiphase Flows. FLUCOME 2011 – Paper No. 234, December 5-9, 2011, National Taiwan Ocean University, Keelung, Taiwan. 本人為通訊作者.
3. Cho, YC., Du, W., Amit, G., Sastry, AM., Tseng, CC., and Shyy, W.* (2011, Jun). Surrogate-Based Modeling and Dimension-Reduction Techniques for Thermo-Fluid & Energy Systems. ASME/JSME 8th Thermal Engineering Joint Conference.
4. Tang, JN.*, Tseng, CC., Wang, NF., and Shyy, W. (2011, Jan). Flow Structures of Gaseous Jets Injected into Water for Underwater Propulsion. AIAA-ASM 2011/49th AIAA Aerospace Sciences Meeting.
5. 曾建洲, 呂金童 (2013年08月)。以拉格朗日連結結構分析空蝕流場之研究。第20屆全國計算流體力學學術研討會, 台中惠蓀林場。國科會: 101-2221-E-110-045-MY2。本人為第一作者。獲選為大會最佳論文。

6. 曾建洲，王儷潔 (2013年08月)。空蝕與紊流模型之最佳化研究以及比較。

第20屆全國計算流體力學學術研討會。國科會：101-2221-E-110-045-MY2。

本人為第一作者。

7. 曾建洲，胡厚安 (2013年08月)。以數值模擬研究擺動翼片之動態失速。第

20屆全國計算流體力學學術研討會，台中惠蓀林場。國科會：102-3113-P-

006-011。本人為第一作者。