

## 論文發表

### (A) 期刊論文 (近五年)

1. Keh-Chin Chang and Wen-Chung Wu, "A Study on Flow Regime near Critical Rayleigh Number for Buoyancy- Driven Cavity Flow," *Modern Physics Letters B*,(SCI) Vol. 19, issue 28/29, 2005, pp.1635-1638.
2. 吳文忠與張克勤, "近臨界 Ra 值之三維空穴自然對流場模擬探討," *Transactions of the Aeronautical and Astronautical Society (EI)*, Vol.37 No.2, Jun. 2005, pp171-180.

### (B) 研討會論文 (近五年)

1. Wen-Chung Wu , " Transition to Chaos of Air for Rayleigh Bénard Convection in Rectangular Cavity ," *41th AIAA Thermophysics Conference*, San Antonio, Texas, Jun 22 -25, 2009.(Summit)
2. 吳文忠、羅國豪與陳威任, "二維空穴近臨界Ra數之自然對流模擬," *第十四屆全國計算流體力學學術研討會*, 溪頭, Aug19 -21, 2007.
3. Wen-Chung Wu and Keh-Chin Chang, "Turbulence Statistics of the Weakly Turbulent Natural Convection at  $Ra= 6 \times 10^8$ ," *39th AIAA Thermophysics Conference*, Miami, Florida, Jun 25 -28, 2007
4. 吳文忠與張克勤, "近臨界Ra(弱紊流)下自然對流之紊流統計," *2006 航太學會/民航學會聯合學術研討會*, 中壢, Dec, 2006.
5. Wen-Chung Wu and Keh-Chin Chang, "Turbulence Statistics of Natural Convection in Rectangular Cavity with Side Heated Wall at  $Ra=6 \times 10^8$ ," *13<sup>th</sup> National Computational Fluid Dynamics Conference*, Taipei county, August, 2006.
6. 吳文忠與張克勤, "側邊加熱立方體內自然對流混沌行為之研究," *2005 中國航太學會/中華民航學會聯合學術研討會*, 高雄, Dec 12, 2005.
7. 吳文忠與張克勤, " Rayleigh-Bénard 對流在轉變期之數值模擬," *第十二屆全國計算流體力學學術研討會*, 高雄, Aug19 -21, 2005.
8. Keh-Chin Chang and Wen-Chung Wu, "A Study on flow regime near critical Rayleigh number for buoyancy-driven cavity flow," *International Symposium on Physics of Fluids*, Huang-Shan, China, Jun 9-12, 2005.

9. 葉俊郎、吳文忠、陳冠旭、駱正穎與蔡永利, "飛機維修產學策略聯盟飛機次系統與發動機多媒體教材發展現況與未來展望," 教育部九十三年度航太科技教育改進計畫成果發表會, Dec. 12 2004.
10. 吳文忠與張克勤, "三維非穩態自然對流之數值模擬," 第十一屆全國計算流體力學學術研討會, 台東, Aug 5-7, 2004.
11. Wen-Chung Wu, and Keh-Chin Chang, "Revisiting Transition to Chaos of Air in a Cubical Cavity Heated from One Vertical Side and Cooled from the Opposite Side," *37th AIAA Thermophysics Conference*, Portland, Oregon, Jun 28 - July 1, 2004.
12. Keh-Chin Chang and Wen-Chung Wu "探討Boussinesq假設對三維自然對流模擬的影響," 中華民國燃燒學會第十四屆學術研討會, No. I45, 中壢, March 2004.
13. 葉俊郎、吳文忠、陳冠旭、駱正穎與蔡永利, "飛機維修產學策略聯盟飛機次系統與發動機多媒體教材發展現況與未來展望," 教育部九十二年度航太科技教育改進計畫成果發表會, Dec. 19 2003.
14. Wen-Chung Wu, and Keh-Chin Chang, "Numerical Identification of Laminar/Turbulent Flow for Natural Convection in Square Cavity," *The 6th ASME-JSME Thermal Engineering Joint Conference*, Hawaii, March 16-20, 2003.

(C)技術報告及其它 (近五年)

1. 國科會九十七年度專題研究計畫, "長方體內 Rayleigh-Bénard 對流混沌行為之數值模擬", 計畫編號: NSC97-2221-E-150-021
2. 駱正穎、葉俊郎、吳文忠, "飛機次系統及發動機多媒體教學教材製作", 教育部顧問室補助計畫。
3. 葉俊郎、吳文忠, "飛機噴射發動機多媒體教學教材製作", 教育部顧問室補助計畫。
4. 國科會八十九年度大專生專題研究計畫「序向邏輯於飛機發動機燃油系統的應用與分析」, 計畫編號: 89-2815-C-150-003-E

(D)專書與論文

1. 吳文忠, 1994,5 超音速空穴流抑制壓力震盪之數值研究 (Numerical Simulation of Suppression of the Pressure Fluctuation of Supersonic Open Cavity Flow), 國立成功大學航空太空工程研究所 碩士論文.

2. 吳文忠, "Simulation of Natural Convection under Conditions near the Critical Rayleigh Number," 國立成功大學航空太空工程研究所 博士論文.