

Selected Recent Publications in Print(Since 2010)

1. **Kuen-Tsann Chen**, Kuen Ting, Anh Tuan Nguyen, Lihua Wang, Yuan Chih Li, Tai Liang Kuo,h. " Probabilistic fracture mechanics analysis of reactor pressure vessel with underclad and through-clad cracks under pressurized thermal shock transient ", IJNEST (International Journal of Nuclear Energy Science Technology) 2018,Vol. 12 No. 1 P45~65
2. David Cheong Chon Fok, Cheng-Jen Chang, De-Yi Yu, Hung-Chang Chen, Shu-Ying Chang, Yen-Chang Hsiao, Kuen.Ting, Wen-Shiung Lin, **Kuen-Tasnn Chen**, Shih-Feng Chen, " Thermal Distribution and Response in Q-Switched Ruby Laser Treatment for Oculodermal Melanosis (Nevus of Ota)" *Plast Aesthet Res* 2017;4:1-8 (DOI: 10.20517/2347-9264.2016.85) , 2017 .
3. YL Su, **KT Chen**, CJ Chang and K Ting , " Experiment and simulation of biotissue surface thermal damage during laser surgery" , Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, issue number 3, **Volume 231**, pp.581-589 .Published - Jun 1 2017. (DOI: 10.1177/0954408915616933)
4. **Kuen-Tsann Chen**, Yu-Yawn Chen, Chia-Wei Wang, Chih-Lin Chuang, Li-Ming Chiang, Chung-Liang Lai, Hsueh-Kuan Lu, Gregory B. Dwyer, Shu-Ping Chao, Ming-Kuei Shih, Kuen-Chang Hsieh. "Comparison of Standing Posture Bioelectrical Impedance Analysis with DXA for Body Composition in a Large, Healthy Chinese Population", *PLoS ONE* 11(7): pp.616-623. 2016/7
5. Hsueh-Kuan Lu, Li-Ming Chiang, Yu-Yawn Chen , Chih-Lin Chuang , **Kuen-Tsann Chen** ,Gregory B. Dwyer , Ying-Lin Hsu , Chun-Hao Chen and Kuen-Chang Hsieh. " Hand-to-Hand Model for Bioelectrical Impedance Analysis to Estimate Fat Free Mass in a Healthy Population", *Nutrients* 2016, 8(10), 654
6. A.C.Huang , Y.Y.Chen, C.L.Chuang, L.M.Chiang, H.K.Lu, H.C.Lin, **K.T.Chen**, A.C.Hsiao, K.C.Hsieh. " Cross-mode bioelectrical analysis is a standing position for estimating fat-free mass validated against dual-energy x-ray absorptiometry ",. *Nutrition Research* 35(11):982-989. 2016/7
7. **Kuen-Tsann Chen**, Jui-Hsing Chang Jiun-Yu Wu and Meng-Ju Lin, " A Differential Quadrature Method for Solving Multi-Dimensional Inverse Heat Conduction Problem " , *Applied Mechanics and Materials*, Vols. 789-790, pp 441-447, 2015/9.
8. **K. T. Chen**, J. H. Chang, J. Y. Wu, "Modified Stoney's Equation for Evaluation of Residual Stresses on Thin Film", *Applied Mechanics and Materials*, Vols. 789-790, pp. 25-32, 2015
9. **K.-T. Chen**, C.-C. Tsai, W.-J. Luo*,C –W Lu and C.-N. Chen, "Aspect Ratio

- Effect on Multiple Flow Solutions in a Two-Sided Parallel Motion Lid-Driven Cavity", *Journal of Mechanics*, Volume 31, Issue 2, pp 153-160, 2015/08.
10. K.Ting, **K. T. Chen**, Y. L. Su, C. J. Chang, " Effects of Thermal Energy Accumulations of Multi-point Heat Sources in Laser Cosmetic Surgery" , *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering* , Volume 228 ,Issue 2 ,May 2014 ,pp. 162 - 167.
 11. **K.-T. Chen**, C.-C. Tsai, W.-J. Luo*, C.-N. Chen, "Multiplicity of steady solutions in a two-sided lid-driven cavity with different aspect ratios", *Theoretical and Computational Fluid Dynamics*, Volume 27, Issue 6, 767-776, 2013.
 12. **K.T. Chen**, K Ting, Y.Y. Chen, L.J. Lee, K.C. Hsieh*." The development of interactive information system for flaw evaluation in recirculation piping of BWR nuclear power plant". *Advanced Materials Research.*, Volumes 739; pp.616-623. 2013. ISN 1662 8995
 13. **Kuen-Tsann Chen**, Chih-Ching Tsai and Win-Jet Luo*, "Multiplicity Flow Solutions in A Four-sided Lid-driven Cavity", *Applied Mechanics and Materials*, Volumes, 368-370, 838-843, 2013.
 14. Y.C. Li, **K.T. Chen***, Y.L. Su, K. Ting, F.T. Chien, G.D.Li. S.H.Hung, " Risk Evaluation for motor operated valves in an In service Testing Program at a PWR nuclear power plant in Taiwan", *International Journal of Pressure Vessels and Piping*, Vol. 90-91 ,No.1 , pp.17–21, (2012).
 15. K.Ting, **K. T. Chen**, Y. L. Su, C. J. Chang, " Experiment and Simulation of Laser Effect on Thermal field of Porcine Liver" , *World Academy of Science, Engineering and Technology* , Volume 65 , pp. 1284 – 1289, 2012 .
 16. Kuen Ting, **Kuen Tsan Chen**, Chien-Hao Huang and Chin I. Kao, " The Measurements of Nanomechanical Properties and Vibration Modal Analysis of Dragonfly Wing", *International Journal of Aerospace and Lightweight Structures* Vol. 2, No. 1 ,pp 113-119, (2012)
 17. Kuen-Chang Hsieh, **Kuen-Tsann Chen**, Choatponag Kanjanaphachaoat, Chingwen Yeh and Yu-Yawn Chen, " The Application of Finite Element Methods to Study Force Transducer Anti-Deviated Load Characteristics", *Applied Mechanics and Materials* Vols. 138-139 (2012) pp 168-174, (2012). (EI)
 18. Y.T. Shih, C.C.Tsai and **K.T. Chen**," Radial basis function collocation method for a rotating Bose-Einstein condensation with vortex lattices"; *Interaction and Multiscale Mechanics*, Vol. 5, No. 2 , pp.131~144 , (2012).
 19. Yintzer Shih , Jun-Yong Cheng, **Kuen-Tsann Chen**, "An exponential-fitting

finite element method for convection-diffusion problems" ; Applied Mathematics and Computation 217 pp.5798–5809 (2011)

20. J.Y. Wu, H.C. Wang, J.S. Chen, **K.T. Chen** and K.Ting, Using molecular dynamics simulation and parallel computing technique of the deposition of diamond like carbon thin films, Methods and Tools of Parallel Programming Multicomputers, Lecture Notes in Computer Science, Vol. 6083/2011, pp.182-190, (2011).
21. **K.T. Chen**, K. Ting, Y.C. Li, Y.Y. Chen, W.K. Cheng, W.C. Chen, C.T. Liu, A study of the probabilistic risk assessment to the dry storage system of spent nuclear fuel, International Journal of Pressure Vessels and Piping, Vol. 87, No.1, pp.17–25, (2010).