

期刊論文

1. **Yi-Cheng Chen**, Liang-Kai Lee, 2005, “Dynamic Characteristics and Modal Analysis of an Opto-Mechanical Structure, 光學機構之動態特性與模態分析” 科儀新知 Instruments Today, Vol.27, No.3, pp.57-66, 2005 Dec (in Chinese)
2. **Yi-Cheng Chen** and Chung-Biau Tsay, 2002, “Stress analysis of a helical gear set with localized bearing contact,” Finite Elements in Analysis and Design, Vol.38, Issue 8, pp.707-723. (SCI, Impact factor of 2006, 0.762; EI)
3. **Yi-Cheng Chen** and Chung-Biau Tsay, 2001, “Contact ratios and transmission errors of a helical gear set with involute-teeth pinion and modified circular-arc-teeth gear,” JSME International Journal-Series C, Vol.44, No.3, pp.867-874. (SCI, Impact factor of 2006, 0.154; EI)
4. **Yi-Cheng Chen** and Chung-Biau Tsay, 2001, “Bearing contact of a helical gear pair with involute teeth pinion and modified circular-arc teeth gear,” Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Vol.215, No.10, pp.1175-1187. (SCI, Impact factor of 2006, 0.329; EI)
5. **Yi-Cheng Chen** and Chung-Biau Tsay, 2001, “Mathematical model and undercutting analysis of modified circular-arc helical gears,” Journal of the Chinese Society of Mechanical Engineers, Vol.22, No.1, pp.41-51. (EI)
6. **Yi-Cheng Chen** and Chung-Biau Tsay, 2000, “Tooth contact analysis and kinematic optimization of a modified helical gear pair with involute-teeth pinion and modified circular-arc-teeth gear,” Journal of the Chinese Society of Mechanical Engineers, Vol.21, No.6, pp.537-547. (EI)
7. Chung-Biau Tsay, Wen-Yao Liu and **Yi-Cheng Chen**, 2000, “Spur gear generation by shaper cutters,” Journal of Material Processing Technology, Vol.104, pp.271-279. (SCI, Impact factor of 2006, 0.615; EI)

研討會論文

1. Liang-Kai Lee, **Yi-Cheng Chen**, 2005, “Finite Element Modal Analysis of Optical Imaging Structure, 成像光學系統之有限元素模態分析” 2005 ANSYS Taiwan Users Conference, pp.4-13~4-18, 2005 Oct (in Chinese)
2. **Yi-Cheng Chen**, 2005, “Design and Modal Analysis of a Mirror Support Beam,

- 反射鏡支撐樑之設計與模態分析” The 22nd National Conference on Mechanical Engineering, The Chinese Society of Mechanical Engineers, C9-017 (in Chinese)
3. Liang-Kai Lee, **Yi-Cheng Chen**, 2005, “Finite Element Modal Analysis of Opto-Mechanical Structure, 光機結構之有限元素模態分析” The 22nd National Conference on Mechanical Engineering, The Chinese Society of Mechanical Engineers, C3-059 (in Chinese)
 4. **Yi-Cheng Chen**, Ruei-Hung Tsai, Shenq-Tsong Chang, Ting-Ming Huang, 2004, “Opto-Mechanical Design of a ϕ 30cm Reflector Mirror, 30 公分口徑反射鏡之光學機構設計” The 21st National Conference on Mechanical Engineering, The Chinese Society of Mechanical Engineers, pp.2985-2990 (in Chinese).