



网站栏目

- 团队新闻
- 学术活动
- 论文发表

团队研究方向

结构完整性理论
先进连接/表面技术
微(小)化学机械系统
化学—机械力学行为
后续能源与传感技术
结构完整性监测技术
材料细观设计理论

用户登录

姓名 密码

[登录](#)[注销登录](#)

站内检索

 [搜索](#)

站内链接

- 研究园地
- 博士后科研流动站
- 教育部重点实验室
- 化工机械研究所

友情链接

- 华东理工大学
- 图书馆
- 机械与动力工程学院
- 中国结构完整性联盟

Publications in 2004

- Luan WL, Tu ST . Recent developments of thermoelectric power generation. Chinese Science Bulletin 2004; 49(12):1212-1219.
- Tu ST, Segle P. Creep damage and fracture of weldments at high temperature. International Journal of Pressure Vessels and Piping 2004; 81 (2):199-209.
- Chen JJ, Tu ST. Creep fracture parameters of functionally graded coating. Journal of the Chinese Institute of Engineers 2004; 27(6):805-812.
- Gong JM, Jiang Y, Tu ST. High temperature performances of dissimilar welded joints with Nickel based and Austenitic weld metal. Acta Metall. Sinica 2004; 17(4):560-568.
- Xuan FZ, Tu ST, Li PN, Wang ZW. Analysis of bulging deformation of ethylene compressor base-box. Engineering Failure Analysis 2004; 11(1):141-148.
- Xuan FZ, Tu ST . Bulging deformation of ethylene compressor base-box. Engineering Failure Analysis 2004; 11(1):141-148.
- Xuan FZ, Tu ST, Wang ZD. C* estimation for cracks in mismatched welds and finite element validation. International Journal of Fracture 2004; 126 (3):267-280.
- Xuan FZ, Tu ST, Wang ZD, Ma CW. Evaluation of the time dependent failure assessment curves for 10CrMo910 and 316 SS at 550o. Acta Metallurgica Sinica 2004; 17(4):443-449.
- Xuan FZ, Li PN. Finite element-based limit load of piping branch junctions under the combined loadings. Nuclear Engineering and Design 2004; 231 (2):141-150.
- Ma CW, Xuan FZ, Wang ZD, Tu ST. Isochronous Stress-strain Curves of Low Alloy Steel Cross Weld Specimen at High Temperature. Acta Metall. Sinica 2004; 17(4):612-617.
- Xuan FZ, Li PN, Tu ST . Plastic limit load of welded piping branch junctions under internal pressure. Nuclear Engineering and Design 2004; 224(1):1-9.
- Xuan FZ, Tu ST, Wang ZD. TDFAD approach to high temperature defect assessment and its engineering application. Chinese Journal of Mechanical Engineering 2004; 17(4):537-542.
- Zhang XC,Gong JM,Tu SD. Effect of spraying condition and material properties on the residual stress in plasma spraying. Journal of Material Science and Technology 2004; 20(2):149-153.
- Zhang XC,Xu BS, Wang HD,Wu YX. Failure behavior of protective organic coatings under corrosive conditions. Transactions of Nonferrous Metals Society of China 2004; 14():395-404.
- Zhang XC, Xu BS, Wang HD, Wu YX. Thermal residual stresses in multilayered coatings. Proceedings of the Fracture Mechanics Symposium 2004 2004; 21(4):599-604.
- . Numerical simulation of saturation behavior of physical properties in composites with randomly distributed second-phase. 2004; ():.
- Shan-Tung Tu. New Need of Structural Integrity Technology for High Temperature Applications. FM2004-Effects of Environment on Fracture and Damage 2004; Zhejiang University Press(Hangzhou):43-57.
- . Structural weakness spotting for life extension repair of high temperature components. 2004; ():.
- . Creep crack behavior in functionally graded coating. 2004; ():.
- . Monte-Carlo Techniques in Modern Mechanics. 2004; ():.
- . Life Extension of Hydrogenation Reactor with Safety Operation. 2004; ():.
- . Estimation of Round-off Errors in Finite Element Solution Using a Condition Number. 2004; ():.
- . Prediction of Furnace Tube Life Based on Damage Accumulation in Unstable Operation. 2004; ():.
- Zhengdong Wang, Kuilong Zhu, Qiongqi Wang, Fuzhen Xuan. Damage and cracking of hydrogenation pipelines suffered from thermal fatigue. FM2004-Effects of Environment on Fracture and Damage 2004; Zhejiang University Press(Hangzhou):211-216.
- . Fabrication and Characteristics of Fine-grained BaTiO₃ Ceramics by Spark Plasma Sintering. 2004; ():.
- Jianqun Tang, Jianming Gong, Xiancheng Zhang, Shan-Tung Tu. Fracture behavior of SPV50Q steel weldment. FM2004-Effects of Environment on Fracture and Damage 2004; Zhejiang University Press(Hangzhou):87-93.
- Jin Shi, Xiliang Zhang, Shan-Tung Tu. High temperature brazed joints against creep failure. FM2004-Effects of Environment on Fracture and Damage 2004; Zhejiang University Press(Hangzhou):267-272.
- Li Hua, Hong Xu, Zhiwen Wang, Zhengdong Wang. Tempering embrittlement of 2.25Cr-1Mo steel for a long term of service. FM2004-Effects of Environment on Fracture and Damage 2004; Zhejiang University Press(Hangzhou):105-109.

