工 程 力 学 系
Mechanics Engineering Department

冯文杰

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『基本信息』

⊙姓名	冯文杰	⊙所属单位	工程力学系	
⊙职称	教授	⊙职务	副系主任	
⊙电话		⊙e-mail		
⊙学习经历	本科：兰州大学硕士：哈尔滨工业大学博士：哈尔滨工业大学			

『个人简历』

1989年兰州大学力学系本科毕业后保送到哈尔滨工业大学航天工程与力学系攻读硕士学位，1992年硕士毕业后分配到石家庄铁道学院工作至今。这期间，1995年9月至1999年3月在哈尔滨工业大学航天工程与力学系攻读博士学位，2001年11月至2002年5月，2005年1月至4月，2005年7月到10月，2006年6月到9月在香港大学土木工程系进行合作研究。1999年晋升为副教授，并被评为河北省骨干教师，2001年破格晋升为教授。2003年入选河北省新世纪"三三三工程"第三层次人选。2000年工程力学系成立时，任应用力学教研室主任兼支部书记，2004年5月至今任工程力学系教学科研副主任。自1992年参加工作以来，始终从事教学科研的一线工作。●先后讲授5门本科生课程，6门研究生课程。●发表学术论文60多篇，其中，22篇已被SCI收录，26篇已被EI收录。●1999年参与撰写学术专著1部。●99年获军队科技进步奖1项，2004年获河北省自然科学奖1项。
●到目前，指导或协助指导硕士研究生7名，已毕业5名。

『研究领域』

动力学正反问题，新型材料和结构断裂力学

『科研项目』

主持 1．长大隧道施工中岩体稳控面超前预报理论及实验研究，铁道部科技司基金，2000-2001 2．奇异谱理论在2D缺陷弹性波CT中的应用，河北省博士基金（B2001213），2001-2003 3．不良地质动态识别的逐次松弛法，河北省教育厅科技发展计划项目，2003-2005（第2负责人） 4．三维弹性波实时检测仪，河北省科技厅科技攻关项目，2004-2006（第2负责人） 5．功能梯度电磁弹性材料断裂特性分析，河北省自然科学基金（E2006000398），2006-2008 参加 6． 小角照射一般带宽条件下缺陷及地下埋设物的重构技术，国家

『论文及著作』

(1) Journal papers written in English 1 Chang Jianmei, Feng Wenjie. Failure prediction of a Mode III crack in an orthotropic functionally graded strip. Key Engineering Materials, (accepted for publication on Feb. 2006) 2 Feng Wenjie, Su Raykaileung. Dynamic fracture behaviors of cracks in a functionally graded magneto-electro-elastic plate, Eur. J. Mech. A/Solids (Online since Sep, 2006) 3 Su RKL, Feng Wenjie, Liu J.Transient response of interface cracks between dissimilar magneto-electro-elastic strips under out-of-plane mechanical and in-plane magneto-electrical impact loads. Composite Structures, (online since Sep, 2005) 4 Feng Wenjie, Su RKL, Dynamic internal crack problem of a functionally graded magneto-electro-elastic strip. International Journal of Solids and Structure, 2006, 43 (17), 5196-5216. (SCI &EI) 5 Feng Wenjie, Su RKL, Scattering of SH waves by an arc-shaped interface crack between a cylindrical magneto-electro-elastic inclusion and matrix with the symmetry of 6mm. Acta Mechanica, 2006, 183(2), 81-102. (SCI &EI) 6 Feng Wenjie, LiYansong. Transient response of a piezoelectric layer with a penny-shaped crack under electricalmechanical impacts. Structural Engineering and Mechanics, 2006,23(2), 163-176. (SCI &EI) 7 Feng Wenjie, Wang Hongjun, Xue yan. Antiplane shear impact of multiple coplanar Griffith cracks in an isotropic functionally graded strip. Composite Structures, 2006,73/3, 354-359. (SCI &EI) 8 W.-J. Feng, R.-J. Hao, J.-X. Liu, S.-M. Duan. Scattering of SH waves by arc-shaped interface cracks between a cylindrical magneto-electro-elastic inclusion and matrix: near fields. Archive of Applied mechanics. 2005, 74, 649-663. (SCI &EI) 9 W. J. Feng, R. K. L. Su, Z. Q. Jiang. Torsional impact response of a cylindrical interface crack between a functionally graded interlayer and a homogeneous cylinder. Composite Structures, 2005,68(2), 203-209. (SCI &EI) 10 Feng Wenjie, Xue yan, Zou Zhenzhu. Crack growth of interface crack between two dissimilar magneto-electro-elastic materials under anti-plane mechanical and in-plane electric magnetic impact. Theoretical and Applied Fracture Mechanics. 2005,43 (3), 376-394. (SCI &EI) 11 Su RKL, Feng Wenjie. Accurate Determination of Mode I and II Leading Coefficients of the Williams Expansion by Finite Element Analysis. Finite Elements in Analysis and Design, 2005, 41(11-12), 1175-1186. (SCI &EI) 12 Feng W J, Su RKL, Zou Z Z. Dynamic response of multiple coplanar interface cracks between two dissimilar piezoelectric materials. Key Engineering Materials, 2004, 261-263, 477-482. (SCI &EI) 13 Feng W J, Hao R J, Wang L B, Liu J. Local stress field for torsion of a penny-shaped crack in a functionally graded strip. Key Engineering Materials, 2004, 261-263, 123-128. (SCI &EI) 14 Feng Wenjie, Wang liqun, Jiang Zhiqing. Shear wave scattering from a partially debonded piezoelectric cylindrical inclusion. Acta Mechanica Solid Sinica, 2004, 17(3), 258-269. (SCI) 15 Feng Wenjie, Li xiangguo. Torsional impact response of a penny-shaped crack in a functional graded strip. Applied Mathematics and Mechanics, 2004, 25 (12), 1278-1284. (SCI &EI) 16 Feng Wenjie, Ray K L Su. Local Stress Field for Torsion of a Penny-Shaped Crack in a Transversely Isotropic Functionally Graded Strip. Structural Engineering and Mechanics, 2004, 18(6), 759-768. (SCI &EI) 17 Wu Lanhe, Jiang Zhiqing, Feng wenjie. An analytical solution for static analysis of a simply supported moderately thick sandwich piezoelectric plate. Structural Engineering and Mechanics, 2004, 17(5), 641-654. (SCI &EI) 18 Feng Wenjie, Zou Zhenzhu. Dynamic Stress Field for Torsional Impact of a Penny-shaped Crack in a Transversely Isotropic Functional Graded Strip. International Journal of Engineering Science, 2003, 41(15), 1729-1739. (SCI &EI) 19 Feng Wenjie, Zou Zhenzhu. Impact failure of a Mode III crack in an orthotropic functionally graded strip. Theoretical and Applied Fracture Mechanics, 2003, 40(1), 97-104. (SCI &EI) 20 Feng Wenjie, Zou Zhenzhu. Acoustic wave imaging of two- dimensional targets. Applied Mathematics and Mechanics, 2003, 24(6), 700-705. (SCI) 21 Su RKL, Feng Wenjie, Liu

Jinxi, Zou Zhenzhu. Transient response of coplanar interface cracks between two dissimilar piezoelectric strips under anti-plane mechanical and in-plane electric impacts. Acta Mechanica Solid Sinica, 2003, 16(4), 300-312. (SCI) 22 Wu Lanhe, Feng wenjie. Differential cubature method for bucking analysis of arbitrary quadrilateral thick plates. Structural Engineering and Mechanics, 2003, 16(3), 259-274. (SCI &EI) 23 Feng Wenjie, Zou Zhenzhu. Dynamic stress intensity factors of cylindrical interface cracks subjected to P-Wave. Key Engineering Materials, 2000,183, 241-246. (SCI &EI) 24 Liu Jinxi, Jiang zhiqing, Feng Wenjie. On the electroelastic interaction of a piezoelectric screw dislocation with an elliptical inclusion in piezoelectric materials. Applied Mathematics and Mechanics, 2000, 21(11), 1314-1319. (SCI &EI) (2) Journal papers written in Chinese 25 Feng Wenjie, R. K. L. Su, Zou Zhenzhu. Torsional impact response of multiple cylindrical interface cracks between a functionally graded interlayer and homogeneous material, Acta Mechanica Sinica, 2005, 37(1), 120-124 (in Chinese) 26 Feng Wenjie, R.K.L. Su, Zou Zhenzhu. Transient response of coplanar Griffith cracks in an orthotropic functionally graded strip under antiplane shear impact. Acta Mechanica Sinica, 2003, 35(4), 474-479 (in Chinese) 27 Feng Wenjie, Zou Zhenzhu. A penalty function method for shape identification of 2-D flaws based on limited scattering signals. Acta Mechanica Sinica, 2001, 33(4): 554-562 (in Chinese) 28 Feng Wenjie, Zou Zhenzhu. Dynamic stress intensity factors of cylindrical interface cracks subjected to P-Wave (buried pipe). Acta Mechanica Solid Sinica, 2000, 21(1): 71-78 (in Chinese) 29 Feng Wenjie, Ma Xingrui, Zou Zhenzhu. Identification of flaws based on inverse Born approximation. Journal of Vibration Engineering, 1994,7(2): 167-171 (in Chinese) (EI) 30 Feng Wenjie, Zhang Huibin, Wang Liqun. Steady propagation of interfacial crack in layered piezoelectric strips. Engineering Mechanics, 2004, 21(4), 112-117 (in Chinese) (EI) 31 Feng Wenjie, Zhang Zhiguo, Zou Zhenzhu. Dynamic response of interface cracks in layered piezoelectric half space subjected to mechanical and electrical impacts. Engineering Mechanics, 2003, 20(6), 75-80 (in Chinese) 32 Feng Wenjie, Zou Zhenzhu. Time domain Born approximation for the scattering theory of elastic wave by 2-D flaws. Engineering Mechanics, 1999, 16(5): 17-21 (in Chinese) (EI) 33 Feng Wenjie, Xue Deqing, Zou Zhenzhu. Study on the character of the Generalized Pochhammer frequency special. Engineering Mechanics, 1999, 16(1): 43-48 (in Chinese) (EI) 34 Xue Yan, Feng Wenjie. Genetic Algorithm for the identification of a crack situated in a strip. Chinese Journal of Applied Mechanics, 2004, 21(2): 155-158 (in Chinese) 35 Feng Wenjie, Zou Zhenzhu. Reconstruction of 2-D obstruction Based on elastic wave scattering. Chinese Journal of Applied Mechanics, 2000, 17(1): 81-84 (in Chinese) (EI) 36 Feng Wenjie, Zou Zhenzhu, Qian Hongfeng. Study on the frequency special character of a buried rod of circular cross section. Chinese Journal of Applied Mechanics, 1999, 16(3): 28-32(in Chinese) (EI) 37 Chang Jianmei, Feng Huaiping, Feng Wenjie. Multinomial expansion method for inverse problem of 2-D target. Journal of Vibration and Shock, 2004, 23(3): 50-53 (in Chinese) 38 Feng Wenjie, Zou Zhenzhu. The free vibration of point-supported circular plate. Journal of Vibration and Shock, 1999, 17(2): 67-69 (in Chinese) (EI) 39 Chang Jianmei, Feng Huaiping, Feng Wenjie. FEM with absorbing boundary condition and expansion of discrete Chebyshev polynomials for inverse problem of elastic waves. Chinese Journal of Computer Mechanics, 2005, 22(6): 762-766 (in Chinese) (EI) 40 Chang Jianmei, Feng Huaiping, Feng Wenjie. Numerical simulation of wave scattering with absorbing boundary condition and its error analysis. Chinese Journal of Journal of Vibration and Shock, 2005, 24(6): 48-50+60 (in Chinese) (EI) (3) Papers of international conference 41 ou Zhenzhu, Feng Wenjie. The dynamic response of a quarter plane under the action of an expanding normal load with a constant speed. Proceedings of the International Conference on Structural Dynamics, Vibration, Noise and Control, Hong Kong, December 5-7, 1995: 215-220 42 Su RKL, Feng WJ, Sun HY. Determination of the leading coefficients of the asymptotic field for elastic plane cracks by the fractal finite element method. Proceedings of the

Sixth Word Congress on Computational Mechanics in Conjuction with APCOM-4, Editors ZH Yao, MW Yuan and WX Zhone, Sept. 5-10, 2004, Beijing, China, Tsinghua University Press & Springer-Verrlag 43 Lanhe Wu, Wenjie Feng, Jinxi Liu. Differential Cubature method for Static Analysis of Functionally Graded Thick Plates. Proceedings of the International Conference on Heterogeneous Materials Mechanics, Chongqing University and Yangtze River/Three Gorges, China, 2004: 419-423 (4)

著作 《弹性波反演方法及应用》 科 学 出 版 社 出 版，1999 （第2章）

『获得荣誉』

1999年获河北省骨干教师称号 1999年获军队科技进步三等奖（排名第3） 2003年入选河北省新世纪"三三三工程"第三层次人选 2004年《理论力学》获河北省精品课程（排名第1） 2004年获河北省自然科学二等奖（排名第2） 2005 年获石家庄市十佳教师称号 2006年《弹性力学》获河北省精品课程（排名第1）
2006年获石家庄市5.4青年奖章

『学术团体』

下列国际杂志的评阅人 (1) Acta Mechanics (2) International Journal of Solid and Structures (3) Key Engineering Materials (4) Engineering Fracture Mechanics (5) Philosophical Magazine Letters

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