

# 个人简历

## 基本情况:

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## 简介:

陈建兵, 男, 湖北公安人, 博士, 同济大学土木工程学院教授、博士生导师, 上海市曙光学者。1997年7月毕业于东北大学, 同年9月作为硕士研究生进入同济大学, 1999年4月提前攻读博士学位, 2002年6月博士毕业后留校任教。2006年6月-2007年6月作为国家留学基金委全额资助访问学者在美国南加州大学(University of Southern California)从事访问研究, 同时受邀访问了加州大学伯克利分校(UC Berkeley)、加州大学洛杉矶分校(UCLA)、莱斯大学(Rice University)、哥伦比亚大学(Columbia University)和休斯顿大学(University of Houston)并做学术报告。2011年7月、2012年9月和2014年6-8月分别应邀赴中国台湾科技大学、丹麦 Aalborg 大学和奥地利维也纳工业大学进行访问和讲学。

主持国家自然科学基金项目 3 项、“863 计划”项目一项, 作为骨干成员曾先后参与国家自然科学基金创新研究群体科学基金、国家自然科学基金重大研究计划重点项目、国家杰出青年科学基金及国家“十一五”科技支撑计划、“十五”科技攻关计划等国家重点科技项目的研究。获 2004 年度上海市优秀博士论文奖、2005 年度全国优秀博士论文提名奖、2005 年度教育部自然科学一等奖(第 3 完成人)等多项奖励。2006 年入选同济大学优秀青年教师、上海市优秀青年教师培养计划, 2007 年入选教育部“新世纪优秀人才支持计划”, 2011 年入选上海市“曙光学者”, 2012 年获得霍英东高等院校青年教师奖, 2014 年获得“全国优秀科技工作者”称号。

主要研究方向为结构工程、随机动力学与控制及结构可靠度理论, 特别致力于发展随机动力系统响应分析与控制的密度演化理论。开设或合作讲授《地震工程学》、《结构随机动力性》等研究生课程和《荷载与结构设计原则》等本科生课程。

出版著作 4 部(其中英文专著一部(Stochastic Dynamics of Structures, John Wiley & Sons, 2009), 共同主编论文专集 4 本, 作为 Guest Editor 共同负责主编国际学术期刊专辑(Special Issue)两次, 多次受邀在重要国内和国际学术会议上做大会邀请报告, 在国内外学术期刊及国际学术会议上发表研究论文 160 余篇(其中国内外核心刊物论文 90 余篇, 被 SCI 收

录 36 篇、EI 收录 80 余篇)。成果被 32 个国家和地区的学者引用或实质性跟踪研究。入选“2014 年中国高被引学者榜单”(土木和结构工程)。

兼任国际结构安全性委员会(JCSS)委员、IFIP WG7.5 工作委员会委员、中国振动工程学会随机振动专业委员会副主任兼秘书长、中国建筑学会结构计算理论与工程应用专业委员会委员兼副秘书长、中国力学学会动力学与控制专业委员会随机动力学学组成员、《振动工程学报》编委。ICASP11(瑞士苏黎世)、IALCCE2010(中国台湾)、IALCCE2012(奥地利维也纳)、ISRERM2012(日本横滨)和 APSSRA2012(新加坡)等重要系列国际学术会议的国际顾问委员会或国际学术委员会委员。国家自然科学基金委员会-中国科学院 2011-2020 学科发展战略研究建筑、环境与土木工程学科发展战略研究工作组成员。

## 教育与工作经历:

2012 年 12 月-	教授、博士生导师, 同济大学土木工程学院
2014 年 6 月-2014 年 8 月	奥地利维也纳工业大学, 访问教授
2011 年 6 月-2012 年 12 月	特聘研究员、博士生导师, 同济大学土木工程高等研究院
2012 年 9 月-2012 年 9 月	丹麦 Aalborg 大学, 讲学(4 个星期)
2011 年 7 月-2011 年 7 月	台湾科技大学, 讲学(2 个星期)
2006 年 6 月-2011 年 6 月	副教授、博士生导师(2010 年起), 同济大学土木工程学院建工系、土木工程防灾国家重点实验室
2006 年 6 月-2007 年 6 月	访问学者, University of Southern California, USA
2002 年 6 月-2006 年 6 月	讲 师, 同济大学 土木工程学院 建筑工程系
1999 年 4 月-2002 年 6 月	同济大学, 博士研究生, 专业: 结构工程
1997 年 9 月-1999 年 3 月	同济大学, 硕士研究生, 专业: 结构工程
1993 年 9 月-1997 年 7 月	东北大学, 大学本科生, 专业: 工业与民用建筑

## 主要研究方向:

- ✓ 结构随机动力学与控制、结构可靠度理论
- ✓ 地震工程
- ✓ 混凝土结构

## 研究经历:

1. 主持项目“基于密度演化理论的非线性结构动力可靠度及其形成机制”, 国家自然科学基金委员会, 2012-2015, 主持人: 陈建兵, 编号: 11172210

2. 主持项目“基于密度演化理论的非线性结构系统随机最优控制研究”，国家自然科学基金项目，2009-2011，主持人：陈建兵，编号：10872148
3. 主持项目“非线性随机结构分析的密度演化理论”，国家自然科学基金项目，2005-2007，主持人：陈建兵，编号：10402030
4. 主持项目“海上风力发电高塔可靠性设计与智能控制关键技术”，国家高技术研究发展计划（863 计划）课题，2008-2010，课题组长：陈建兵，编号：2008AA05Z413
5. 主持项目“基于密度演化理论的非线性结构系统随机最优控制研究”，留学回国人员科研启动基金，2009-，主持人：陈建兵，编号：教外司留[2009]1590 号第 37 批
6. 参与项目“混凝土动力本构关系与结构随机动力非线性行为模拟”，国家自然科学基金重大研究计划“重大工程的动力灾变”重点支持课题，2008-2011，主持人：李杰，编号：90715033
7. 参与项目“土木工程防灾”，国家自然科学基金创新研究群体科学基金，2004-2009，主持人：李杰，编号：50321803, 50621062
8. 参与项目“住宅建筑体系与工程质量保障关键技术”，国家“十五”科技攻关重点项目，2002-2005，主持人：李杰，编号：2002BA806B05
9. 参与项目“大型复杂生命线工程系统的行为与优化”，国家杰出青年科学基金，1998-2001，主持人：李杰，编号：59825105

## 荣誉与获奖:

- 全国优秀科技工作者，中国科协，2014 年
- 入选“2014 年中国高被引学者榜单”（土木和结构工程专业），2014 年
- 霍英东高等院校青年教师奖，教育部，2012 年
- 入选上海市“曙光学者”，上海市，2011 年
- 入选教育部“新世纪优秀人才”支持计划，教育部，2007 年
- 入选 2006 年“上海高校选拔培养优秀青年教师科研专项基金”项目，2006 年
- 同济大学优秀青年教师，2006 年
- 教育部提名国家自然科学一等奖，编号 2005-013，2005 年，第 3 完成人
- 全国优秀博士论文提名奖，2005 年
- 上海市优秀博士学位论文奖，2004 年
- 教育部提名国家自然科学奖二等奖，编号 2003-065，2003 年，第 11 完成人
- 上海市科技进步二等奖，编号 012021，2001 年，第 9 完成人
- 上海市科技进步三等奖，2005 年，第 6 完成人
- 同济大学晨兴奖学金，2000 年 10 月
- 同济大学光华奖学金，1998 年 10 月

- 辽宁省优秀毕业生，1997年7月
- 东北大学优秀学生标兵，1994年10月、1995年10月、1996年10月
- 东北大学周鲸文奖学金一等奖，1996年10月
- 东北大学蔡冠深奖学金一等奖，1995年10月
- 东北大学东宇集团奖学金一等奖，1994年10月

### 学术兼职:

- 国际结构安全性联合委员会 (JCSS), 委员 (2015-);
- IFIP WG7.5 结构系统可靠性与优化工作委员会, 委员 (2015-);
- 中国振动工程学会, 高级会员 (2014-);
- 《振动工程学报》编委 (2012-);
- 中国振动工程学会随机振动专业委员会, 副主任委员(2013-)兼秘书长 (2008-);
- 南方计算力学联络委员会, 副主任 (2013-);
- 中国建筑学会结构计算理论与工程应用专业委员会委员兼副秘书长 (2003-);
- 美国工业与应用数学学会 (SIAM), 会员 (2012-);
- 中国力学学会动力学与控制专业委员会随机动力学学组组员 (2011-);
- 国家自然科学基金委员会-中国科学院 2011-2020 学科发展战略研究建筑、环境与土木工程学科发展战略研究小组成员 (2009-2010);
- ICASP11 等 10 余个国际学术会议的学术委员会委员.

### 组织国内外学术交流活动:

1. Mini-symposium on the Second International Conference on Vulnerability and Risk Analysis and Management (ICVRAM2014) & Sixth International Symposium on Uncertainty Modelling and Analysis (ISUMA2014) “Generalized Engineering Reliability – A Physical Approach”, 2014年7月15-18日, 英国利物浦, 组织论文9篇, co-organizer;
2. 2nd International Summer School on Stochastic Dynamics of Wind Turbines and Wave Energy Absorbers, Aalborg, Denmark, August 6-8, 2014, 中方负责人;
3. International Summer School on Stochastic Dynamics of Wind Turbines and Offshore/Marine Engineering Structures (ISSSD2013), August 14-16, 2013, Shanghai, China, 组委会秘书长;
4. Mini-symposium on ICOSSAR2013 “Generalized Engineering Reliability - A Physical Approach”, 2013年6月18-21日, 美国纽约, 组织论文26篇, co-organizer;
5. Mini-symposium on APSSRA2012 “Propagation of Uncertainties in Civil Engineering”, 新加坡, 2012年5月23-25日, 组织论文12篇, co-organizer;
6. The Second Asia-Pacific Young Researchers and Graduates Symposium(YRGS2010), 共同主席(Co-Chairman), 2010年3月26-28日, 杭州;
7. International Symposium on Reliability Engineering and Risk Management (ISRERM2010), September 23-26, 2010, Shanghai, China. Secretary of Organizing Committee (组织委员会)

秘书长);

8. International Workshop on Reliability Engineering and Risk Management (IWRERM2008), August 21-23, 2008, Shanghai, China. Secretary of Organizing Committee (组织委员会秘书长)。
9. 第九届全国随机振动理论与应用学术会议暨第三届全国随机动力学学术会议, 2014 年 10 月 10-11 日, 兰州, 学术委员会委员兼秘书长;
10. 中国力学大会-2013 专题研讨会 MS44 “不确定性的传播与工程可靠性专题研讨会”, 2013 年 8 月 21 日, 共同负责人;
11. 第六届全国动力学与控制青年学者学术研讨会, 2012 年 7 月 22-26 日, 上海, 承办单位会务组负责人;
12. 第八届全国随机振动理论与应用学术会议暨第一届全国随机动力学学术会议, 2012 年 11 月 8-9 日, 成都, 学术委员会委员兼秘书长;
13. 工程结构可靠性 2011 年度暑期研讨班, 2011 年 7 月 3-8 日, 上海, 组织委员会负责人;
14. 第七届全国随机振动理论与应用学术会议, 2010 年 5 月 21-23 日, 武汉, 学术委员会委员兼秘书长;
15. 随机振动理论与应用 2009 年度暑期研讨班, 2009 年 7 月 18-19 日, 上海, 组委会负责人;
16. 第六届全国随机振动理论与应用学术会议, 2008 年 5 月 9-11 日, 天津, 组委会秘书长;
17. 全国结构计算理论与工程应用第一届学术会议, 2003 年 10 月, 上海, 会务组秘书;
18. 土木工程防灾国家创新研究群体, 学术秘书 (2004-2009) .

## 教学工作:

- 《地震工程学》研究生课程, 2003 -
- “Earthquake Engineering” 研究生课程, 2013 -
- 《结构随机动力学》研究生课程 (2003 - 2014 名称为《随机结构分析与建模》), 2003 -
- 《结构稳定性与极限荷载》本科生课程, 2012 -
- 《荷载与结构设计原则》本科生课程, 2013 -
- 《混凝土随机损伤力学》研究生课程, 2005 - 2011
- 《土木工程专业英语》研究生课程, 2007 - 2011
- 《土木工程专业英语阅读 I、II、III》本科生课程, 2003 - 2006

## 发表著作和论文:

### 著作

1. Li J, Chen JB. Stochastic Dynamics of Structures. John Wiley & Sons, 2009.
2. 李杰, 吴建营, 陈建兵. 混凝土随机损伤力学. 北京: 科学出版社, 2014.
3. 刘章军, 陈建兵编著. 结构动力学. 北京: 中国水利水电出版社, 2012.
4. 陈建兵. 随机结构非线性反应概率密度演化分析. 上海: 同济大学出版社, 2007. (同济大学优秀博士论文文库)



## 主编

1. Jie Li, Jianbing Chen (Guest Editors). Special Issue: The International Symposium on Reliability Engineering and Risk Management. *Advances in Structural Engineering* Vol. 15 No. 11 2012.
2. Yuxi Zhao and Jianbing Chen (Guest Editors). Special Issue: Structural Vibration and Control. *International Journal of Structural Engineering*, Vol. 3, Nos. 1/2, 2012.
3. Yuxi Zhao, Jianbing Chen (ed). *Advance in Structural Engineering-Proceedings of the Second Asia-Pacific Young Researchers and Graduates Symposium*. Hangzhou, Zhejiang University Press, 2010.
4. Li J, Zhao YG, Chen JB, Peng YB. *Reliability Engineering and Risk Management (Volume 2). Proceedings of the International Symposium on Reliability Engineering and Risk Management (ISRERM2010)*. Shanghai, Tongji University Press, 2010.
5. Li J, Zhao YG, Chen JB. *Reliability Engineering and Risk Management. Proceedings of the International Workshop on Reliability Engineering and Risk Management (IWRERM2008)*. Shanghai, Tongji University Press, 2009.
6. 李杰, 陈建兵主编. *随机振动理论与应用新进展*. 上海: 同济大学出版社, 2009.

## 研究报告

1. 黄宏伟, 陈建兵, 何军. 工程结构可靠性与全过程风险控制. 茹继平、刘加平、曲久辉、李杰主编. 国家自然科学基金委员会-中国科学院 2011-2020 学科发展战略研究专题报告集: 建筑、环境与土木工程, pp.193-202. 北京: 中国建筑工业出版社, 2011.
2. 李刚, 陈建兵, 李杰. 计算结构工程与结构随机动力学. 茹继平、刘加平、曲久辉、李杰主编. 国家自然科学基金委员会-中国科学院 2011-2020 学科发展战略研究专题报告集: 建筑、环境与土木工程, pp.140-150. 北京: 中国建筑工业出版社, 2011.
3. Li J, Chen JB. Probability density evolution method in stochastic dynamics. in: Michael Beer, Ioannis A. Kougioumtzoglou, Edoardo Patelli, Ivan Siu-Kui Au (Ed). *Encyclopedia of Earthquake Engineering*, DOI 10.1007/978-3-642-36197-5\_333-1, ISBN: 978-3-642-36197-5 (Online), Springer-Verlag Berlin Heidelberg, 2014.

## 国际刊物论文

1. Jianbing Chen, Youkun Liu, Xueyuan Bai. Shaking table test and numerical analysis of offshore wind turbine tower systems controlled by TLCD. *Earthquake Engineering and Engineering Vibration*, 2015, 14(1): 55-75.
2. Chen JB, Yuan SR. Dimension reduction of the FPK equation via an equivalence of probability flux for additively excited systems. *Journal of Engineering Mechanics*, 2014, 140(11): Paper No. 04014088.
3. Chen JB, Yuan SR. PDEM-based dimension-reduction of FPK equation for additively excited hysteretic nonlinear systems. *Probabilistic Engineering Mechanics*, 2014, 38: 111-118.
4. Peng YB, Chen JB, Li J. Nonlinear response of structures subjected to stochastic excitations

- via probability density evolution method. *Advances in Structural Engineering*, 2014, 17(6): 801-816.
5. Chen JB, Lin PH. Dimension-reduction of FPK equation via equivalent drift coefficient. *Theoretical and Applied Mechanics Letters*, 2014, 4(1), 013002.
  6. Zi-Li Zhang, Jian-Bing Chen and Jie Li. Theoretical study and experimental verification of vibration control of offshore wind turbines by a ball vibration absorber. *Structure and Infrastructure Engineering*, 2014, 10(8): 1087-1100.
  7. Sichani MT, Chen JB, Kramer MM, Nielsen SRK. Constrained optimal stochastic control of non-linear wave energy point absorbers. *Applied Ocean Research*, 2014, 47: 255-269.
  8. Chen JB, Sun WL, Li J, Xu J. Stochastic harmonic function representation of stochastic processes. *Journal of Applied Mechanics*, 2013, 80(1), 011001-1-11.
  9. Chen JB, Li J. Optimal determination of frequencies in the spectral representation of stochastic processes. *Computational Mechanics*, 2013, 51(5): 791–806.
  10. Chen JB, Zhang SH. Improving point selection in cubature by a new discrepancy. *SIAM Journal on Scientific Computing*, 2013, 35(5): A2121-A2149.
  11. Jie Li, Zhen Mei, Jianbing Chen and Yongbo Peng. Experimental investigations of stochastic control of randomly base-excited structures. *Advances in Structural Engineering*, 2012, 15(11): 1963-1975.
  12. Jun Xu, Jianbing Chen, Jie Li. Probability density evolution analysis of engineering structures via cubature points. *Computational Mechanics*, 2012, 50(1):135–156.
  13. Li J, Chen J, Sun W, Peng Y. Advances of the probability density evolution method for nonlinear stochastic systems. *Probabilistic Engineering Mechanics*, 2012, 28: 132-142.
  14. Li J, Yan Q, Chen JB. Stochastic modeling of engineering dynamic excitations for stochastic dynamics of structures. *Probabilistic Engineering Mechanics*, 2012, 27(1): 19-28.
  15. Yong-Bo Peng, Jie Li and Jian-Bing Chen. Order-independent optimal polynomial control of stochastic dynamical systems. *International Journal of Structural Engineering*, 2012, 3(1/2): 118-136.
  16. Jie Li, Zili Zhang, Jianbing Chen. Experimental study on vibration control of offshore wind turbines using a ball vibration absorber. *Energy and Power Engineering*, 2012, 4, 153-157.
  17. Zhang-Jun Liu, Jian-Bing Chen, Jie Li. Orthogonal expansion of Gaussian wind velocity field and PDEM-based vibration analysis of wind-excited structures. *Journal of Wind Engineering and Industrial Aerodynamics*, 2011, 99(1): 1207-1220.
  18. Jie Li, Yong-Bo Peng, Jian-Bing Chen. Probabilistic criteria of structural stochastic optimal controls. *Probabilistic Engineering Mechanics*, 2011, 26(2): 240-253.
  19. Jie Li, Yong-Bo Peng and Jian-Bing Chen. Nonlinear stochastic optimal control strategy of hysteretic structures. *Structural Engineering and Mechanics*, 2011, 38(1): 39-63.
  20. Chen JB, Li J. Stochastic seismic response analysis of structures exhibiting high nonlinearity. *Computers & Structures*, 2010, 88(7-8): 395-412.
  21. Jie Li, Yong-Bo Peng, Jian-Bing Chen. A physical approach to structural stochastic optimal controls. *Probabilistic Engineering Mechanics*, 2010, 25: 127-141.
  22. Li J, Chen JB. Probability density evolution equations - a historical investigation. *Journal of Earthquake and Tsunami*, 2009, 3(3): 209-226.
  23. Chen JB, Ghanem R, Li J. Partition of the probability-assigned space in probability density evolution analysis of nonlinear stochastic structures. *Probabilistic Engineering Mechanics*,

- 2009, 24(1): 27-42.
24. Chen J-B, Li J. A note on the principle of preservation of probability and probability density evolution equation. *Probabilistic Engineering Mechanics*, 2009, 24(1): 51-59.
  25. Wenliang Fan, Jianbing Chen, Jie Li. Solution of generalized density evolution equation via a family of  $\delta$  sequences. *Computational Mechanics*, 2009, 43(6): 781-796.
  26. Li J, Liu ZJ, Chen JB. Orthogonal expansion of ground motion and PDEM-based seismic response analysis of nonlinear structures. *Earthquake Engineering and Engineering Vibration*, 2009, 8(3): 313-328.
  27. Jie Li, Jianbing Chen. The principle of preservation of probability and the generalized density evolution equation. *Structural Safety*, 2008, 30(1): 65-77.
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