

院士

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郑庭辉

【详细介绍】

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研究方向: 生物力学、计算流体力学、计算声学

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教育经历 (Education):

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计算流体力学博士后, 香港理工大学屋宇建筑设备系

Postdoctoral fellowship in CFD, Hong Kong Polytechnic University

2002/05-2005/03

计算声学博士, 加拿大康戈迪亚大学机械系

Ph. D of Computational aeroacoustics, Concordia University, Canada

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B.Sc. of Applied Mechanics, Sichuan University, China

工作经历 (Experience):

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访问学者, 美国斯坦福大学机械工程系

Visiting Scholar, Stanford University

2005/03-至今 副教授, 四川大学力学系

Associate Professor, Sichuan University

1999/07-2002/04 讲师, 四川大学力学系

Lecture, Sichuan University

主要论著 (Publication):

- 1) T.H. Zheng, J. Wen et al., Numerical investigation of oxygen mass transfer in a helical-type, Computer Methods in Biomechanics and Biomedical Engineering artery bypass graft, 2012, DOI:10.1080/10255842.2012.702764
- 2) T.H. Zheng, W.Z. Wang et al., Assessing Hemodynamic Performances of Small Diameter Helical Grafts: Transient Simulation, Journal of Mechanics in Medicine and Biology, 12 (1): 1250008, 2012,
- 3) J.Wen. T.H. Zheng et al. A Comparative Study of Helical-Type and Traditional-Type Artery Bypass Grafts: Numerical Simulation, ASAIIO Journal, 57(5):399-406. 2011
- 4) W.T. Jiang T.H. Zheng et al., Numerical investigation of pulsatile flow in an s-type bypass graft, Journal of Mechanics in Medicine and Biology, 2011

- 5) T. H. Zheng, S. K. Tang et al., Simulation of Vortex Sound Using the Viscous\Acoustic Splitting Approach, Transactions of CSME , 34(2), 2010
- 6) T. H. Zheng, Y. Xiong et al., Hemodynamic performance study on small diameter helical grafts , ASAIO Journal, 55(3) : 192-199, 2009
- 7) T. H. Zheng, S. K. Tang et al., On the forces and strouhal numbers in the low Reynolds number wakes of two cylinders in tandem, Transactions of CSME, 33(3): 349-360 , 2009
- 8) T. H. Zheng, G. H., Vatistas and S. K. Tang, Effect of Turbulent Vortex Modeling on Sound Radiation by Vortex Body Interaction, Journal of Computational Acoustics, 17(1):71-81, 2009
- 9) T. H. Zheng, A. Povitsky, and G. H., Vatistas, Vortex-generated Sound in Flow about Spinning Cylinders, Journal of Computational Acoustics, 16(4): 577-599, 2008
- 10) T. H. Zheng, G. H., Vatistas, and A. Povitsky, Sound Generation by Street of Vortices in a Non-uniform Flow, Physics of Fluids, 19(3):0371023-1-15 , 2007
- 11) T. H. Zheng, G. H., Vatistas, and A. Povitsky, Sound generation by one -cell and two-cell vortices, Journal of Computational Acoustics, 14(3): 321-337, 2006
- 12) Povitsky, T. H. Zheng, and G. H., Vatistas, Effect of Vortex Profile on Sound Generation in a Non-Uniform Flow, Mathematics and Computers in Simulations, 65: 447-468, 2004
- 13) T. H. Zheng, G. H., Vatistas, and A. Povitsky, Effects of Non-linearity Sound Generation in a Non-uniform Flow, Transactions of the Canadian Society for Mechanical Engineering, 29(1): 57-65, 2005
- 14) Povitsky, T. H. Zheng, and G. H., Vatistas, Effect of Vortex Profile on Sound Generation in a Non-Uniform Flow, Lecture Notes in Computer Science, 2668: 826-836, 2003
- 15) 柳楷、郑庭辉*等, 螺旋弯曲管中血液两相流动分析, 生物医学工程杂志, 2012
- 16) 朱肃敬、郑庭辉*等, 血管生物反应器流场的数值分析, 医用生物力学, 2010
- 17) 郑庭辉、费宝玲、杨骏六, 串列双圆柱尾迹流的数值分析, 西南交通大学学报, 43(6):747-750, 2008
- 18) 费宝玲、郑庭辉、杨骏六, “数值分析串列双圆柱绕流”, 西南民族大学学报, 33:376-380, 2007

【研究方向】

流体力学, 计算声学, 生物力学方向的研究

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