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周翔

职务：特别研究员

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教育背景

时间	任职单位	职务
2006年-2010年	牛津大学	博士
2004年-2006年	清华大学	硕士
2000年-2004年	清华大学	本科

研究方向

(1) Composite sandwich structures;

(2) Mechanical metamaterials;

(3) Foldable structures/mechanisms;

(4) Origami-inspired robots;

(5) Implantable medical devices;

(6) Passive vibration control of beamsand plates.

主要科研项目

国家自然科学基金青年科学基金项目 , No. 51408357。

代表性论文专著

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(2) Xiang Zhou, Zhong You, "Theoreticalanalysis of superelastic SMA helical structures subjected to axial andtorsional loads" , Smart Structures and Systems, 15(5), pp. 1271-1291, 2015.

(3) Xiang Zhou, Shixi Zang, Hai Wang, Zhong You, "Geometric design and mechanical properties of cylindrical foldcoresandwich structures" , Thin-Walled Structures, 89, pp. 116-130, 2015.

(4) Xiang Zhou, Hai Wang, Zhong You, "Mechanicalproperties of Miura-based folded cores under quasi-static loads" , Thin-WalledStructures, 82, pp. 296-310, 2014.

(5) Mital Desai, Raheleh Bakhshi,Xiang Zhou, Marianne Odlyha, Zhong You, Alexander M. Seifalian, and GeorgeHamilton, "A Sutureless Endovascular Aortic Stent-graft Based on NitinolScaffold Bonded to a Compliant Nanocomposite Polymer is Durable for Ten Yearsin a Simulated In-Vitro Model" , Journal of Endovascular Therapy, 19(3), pp.415-427, 2012.

(6) Desai M, Bakhshi R, Darbyshire A,Ahmed M, Eaton-Evans J, Zhou X, You Z, Seifalian A and Hamilton G, Durabilityof a sutureless endovascular stent-graft based on nitinol stents bonded to ananocomposite polymer, British Journal of Surgery, 98 (April), 32-33, 2011

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(13) 周翔, 李俊峰, "利用弹簧-质量系统抑制梁上任意点的振动" , 力学与实践, 2007年第02期, pp. 18-20.

(14) Xiang Zhou, Junfeng Li, Hexi Baoyin and Vadim Zakirov, "Equilibrium Control of Electrodynamic Tethered Satellite Systems in Inclined Orbit" , AIAA Journal of Guidance, Control and Dynamics, Vol. 29, No. 6, 2006, pp. 1451-1454.

(15) Philip D Cha and Xiang Zhou, "Imposing Points of Zero Displacements and Zero Slopes Along Any Linear Structure During Harmonic Excitation" , Journal of Sound and Vibration, Vol. 297, No. 1-2, 2006, pp. 55-71.

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