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<tr><td rowspan="2">所属学科
及学科方向</td><td colspan="3">机械工程</td><td>研究方向 1</td><td>复合材料板壳结构非线性动力学</td></tr>
<tr><td colspan="3">机械设计及理论</td><td>研究方向 2</td><td>空间可展结构动力学与控制</td></tr>
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<tr><td>科研项目情况</td><td colspan="5">1. 国家自然科学基金项目：偏心旋转的大型环形桁架-索网耦合结构非线性动力学研究，主持
2. 北京市教委科技计划一般项目：偏心旋转工况下大型空间环形桁架结构非线性动力学研究，主持
3. 北京信息科技大学“勤信英才”培育计划项目：基于非线性能量阱的偏心旋转空间环形桁架天线结构振动抑制研究，主持</td></tr>
<tr><td>主要科研成果</td><td colspan="5">[1] Yang S W, Wang Z Q, Hao Y X, Zhang W*, Ma W S, Niu Y*. Nonlinear Dynamic Response and Bifurcation of Variable Thickness Sandwich Conical Shell with Internal Resonance. Nonlinear Dynamics, 2024, accepted.
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[11] Yang S W, Hao Y X*, Yang L, Liu L T. Nonlinear vibrations and chaotic phenomena of functionally graded</td></tr>
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	material truncated conical shell subject to aerodynamic and in-plane loads under 1:2 internal resonance relation. Archive of Applied Mechanics, 2021, 91: 883-917. [12]**Yang S W**, Zhang W*, Hao Y X, Niu Y. Nonlinear vibrations of FGM truncated conical shell under aerodynamics and in-plane force along meridian near internal resonances. Thin-Walled Structures, 2019, 142: 369-391. [13]**Yang S W**, Zhang W*, Mao J J. Nonlinear vibrations of carbon fiber reinforced polymer laminated cylindrical shell under non-normal boundary conditions with 1:2 internal resonance. European Journal of Mechanics - A: Solids, 2019, 74: 317-336. [14]Zhang W*, **Yang S W**, M J J. Nonlinear radial breathing vibrations of CFRP laminated cylindrical shell with non-normal boundary conditions subjected to axial pressure and radial line load at two ends. Composite Structures, 2018, 190: 52-78. [15]Hao Y X, **Yang S W**, Zhang W*, Yao M H, Wang A W. Flutter of high-dimension nonlinear system for a FGM truncated conical shell. Mechanics of Advanced Materials and Structures, 2018, 25(1): 47-61. [16]**Yang S W**, Hao Y X, Zhang W*, Li S B. Nonlinear dynamic behavior of functionally graded truncated conical shell under complex loads. International Journal of Bifurcation and Chaos, 2015, 25(2): 1550025. [17]杨绍武, 张伟*. 受边界载荷的大型环形桁架天线结构非线性动力学研究. 中国科学: 物理学 力学 天文学, 2017, 47(10): 104607.
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