

王克用

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个人信息:

姓名: 王克用

职称: 副教授

专业: 机械制造及其自动化 学历层次: 工学博士

办公室地点: 实训楼1422 办公电话: 67791192

电子邮箱: k.y.wang@126.com

研究方向: 高性能有限元计算方法; 3D打印及多机协同系统

主讲课程:

制图基础; 现代工程图学; CAD课程设计; 绘图课程设计; 制图课程设计

个人简介: (教育背景、工作经历)

1995.9-1999.7, 河北工业大学, 机械电子工程专业, 本科

1999.9-2002.3, 河北工业大学, 机械设计及理论专业, 硕士

2002.3-2006.6, 天津大学, 固体力学专业, 博士

2004.9-2005.6, 澳大利亚中央昆士兰大学, 访问学者

2006.12-2010.3, 阿特金斯顾问有限公司, 海洋结构工程师

2013.12-2015.1, 美国加州大学河滨分校, 访问学者

2010.3-至今, 上海工程技术大学, 机械与汽车工程学院, 专任教师

主要科研成果: (代表性论文、专利、著作等)

代表性论文

[1] Keyong Wang, Junchen Zhou, Renyu Zeng. Hybrid Trefftz finite element method for axisymmetric elasticity problems under torsion. *Materials Today Communications*, 2021, 27: 102420.

[2] Huan Liu, Keyong Wang, Qing Liu, Peichao Li. A hybrid fundamental-solution-based finite element method for transient heat conduction analysis of two-dimensional orthotropic materials. *International Journal of Computational Methods*, 2021, 18(4): 2150003.

[3] Wenkai Qiu, Keyong Wang, Peichao Li. Hybrid finite element analysis of heat conduction in orthotropic media with variable thermal conductivities. *International Journal of Applied Mechanics*, 2020, 12(9): 2050098.

[4] Zhengnan Xia, Keyong Wang, Fengyan Ge. Special hole elements for simulating the heat conduction in two-dimensional cellular materials. *Composite Structures*, 2020, 246: 112383.

[5] Ze She, Keyong Wang, Peichao Li. Thermal analysis of multilayer coated fiber-reinforced composites by the hybrid Trefftz finite element method. *Composite Structures*, 2019, 224: 110992

[6] Ze She, Keyong Wang, Huan Liu. Thermal analysis of elliptical fiber-reinforced composites by the hybrid Trefftz finite element method. *International Journal of Heat and Mass Transfer*, 2019, 144: 118596.

[7] Qijia Wang, Keyong Wang, Peichao Li. Forced convective heat and mass transfer in a bidisperse porous parallel-plate channel with a first order reaction on the wall. *Thermal Science and Engineering Progress*,

2019, 13: 100369.

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[9] Junchen Zhou, Keyong Wang, Peichao Li. A hybrid fundamental-solution- based 8-node element for axisymmetric elasticity problems. *Engineering Analysis with Boundary Elements*, 2019, 101: 297-309.

[10] Junchen Zhou, Keyong Wang, Peichao Li. Hybrid fundamental solution based finite element method for axisymmetric potential problems with arbitrary boundary conditions. *Computers & Structures*, 2019, 212: 72-85.

[11] Junchen Zhou, Keyong Wang, Peichao Li, Xiaodan Miao. Hybrid fundamental solution based finite element method for axisymmetric potential problems. *Engineering Analysis with Boundary Elements*, 2018, 91: 82-91.

[12] Keyong Wang, Peichao Li. Forced convection in bidisperse porous media incorporating viscous dissipation. *Applied Thermal Engineering*, 2018, 140: 86-94.

代表性著作

王克用, 李培超. Trefftz型有限元法基本原理. 北京: 中国铁道出版社有限公司, 2019.

申请的专利

郭根清, 王克用. 一种大倾角悬空结构无支撑FDM 3D打印技术, 2021.

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沪ICP备05052046号 信息化办公室制作维护



电话: 86-21-67791000
地址: 中国上海市龙腾路333号
邮编: 201620