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工学博士

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主要研究方向

1. 凝固过程多场多尺度数值模拟
2. 特种液态成型理论与技术
3. 复合材料制备与成形

社会兼职

- 2006, 10 - 现在, 中国机械工程学会铸造分会特种铸造专业委员会 委员;
2004, 07 - 现在, 黑龙江省粉末冶金学会 理事;
2000, 05 - 现在, 哈尔滨市铸造学会 理事;
2008, 10 - 现在, 特种铸造及有色合金杂志 编委;
2010. 01 - 现在, 中国体视学学会材料分会 理事。

主要学术成果

1. Shiping Wu, Jingjie Guo, Yanqing Su, Jun Jia, Numerical Simulation of Melt Mold Filling during Centrifugal Casting of TiAl Alloy Exhaust Valve [J]. International Journal of Cast Materials Research, 2002, 15(3), 137~141
2. Wu Shiping, Guo Jingjie, Jia Jun. Numerical simulation of off-centered porosity formation of TiAl-base alloy exhaust valve during vertical centrifugal casting. Modelling and Simulation in Materials Science and Engineering [J], 2003, 11(4): 599~608
3. Shiping Wu, Bangsheng Li, Jingjie Guo, Chengjun Zhang, Hengzhi Fu. Numerical Simulation for Mold-Filling of Thin-Walled Aluminum Alloy Casting in Traveling Magnetic Field. China Foundry, 2004, 1(2): 89~93
4. Wu Shi-ping, Liu Dong-rong, Guo Jing-jie, Fu Heng-zhi. Modeling of solidification grain structure for Ti-45%Al alloy ingot by cellular automaton. Trans. Nonferrous Met. Soc. China, 2005, 15(2): 291~295
5. Wu Shi-ping, Liu Dong-rong, Guo Jing-jie, Fu Heng-zhi. Effect of process variables on grain growth in simulating solidification microstructure of Ti-45%Al alloy ingot by stochastic model. Trans. Nonferrous Met., China, 2005, 15(5): 1096~1102
6. WU Shiping, LI Changyun, GUO Jingjie, SU Yanqing, LEI Xiuqiao, FU Hengzhi. Numerical simulation and experimental investigation of two filling methods in vertical centrifugal casting. Trans. Nonferrous Met., China, 2006, 16(5): 1035~1040
7. Wu Shiping, Liu Dongrong, Guo Jingjie, Li Changyun, Su Yanqing, Fu Hengzhi. Numerical Simulation of microstructure evolution of Ti-6Al-4V alloy in vertical centrifugal casting. Materials Science and Engineering A, 2006, 426: 240~249
8. Wu Shi-ping, Liu Dong-rong, Guo Jing-jie, Fu Heng-zhi. Influence of process parameters on CET in Ti-Al alloy ingot with consideration of shrinkage cavity formation: A computer simulation. Journal of Alloys and Compounds. 2007, 441: 267~277
9. Wu Shi-ping, Liu Dong-rong, Guo Jing-jie, Fu Heng-zhi, Modeling of microstructure formation of Ti-6Al-4V alloy in a cold crucible under electromagnetic field. Journal of Alloys and Compounds 2008, 456: 85~95
10. 吴士平, 郭景杰, 李邦盛, 毕维生, 苏彦庆, 傅恒志. 一种铸型及其制造方法. 国家发明专利 ZL200610009977.5. 2007.6
11. 吴士平, 郭景杰, 李邦盛, 毕维生, 苏彦庆, 傅恒志. 一种铸件凝固时搜索孤立区的方法. 国家发明专利 ZL200610009994.9. 2008.7
12. 郭景杰, 苏彦庆, 丁宏升, 吴士平, 赵九州. “钛和铝合金熔铸理论与技术研究” 黑龙江省自然科学一等奖, 2008年6月
13. 吴士平, 杜之明. 材料成型及控制工程生产实习教程. 哈尔滨工业大学出版社, 2008, 5