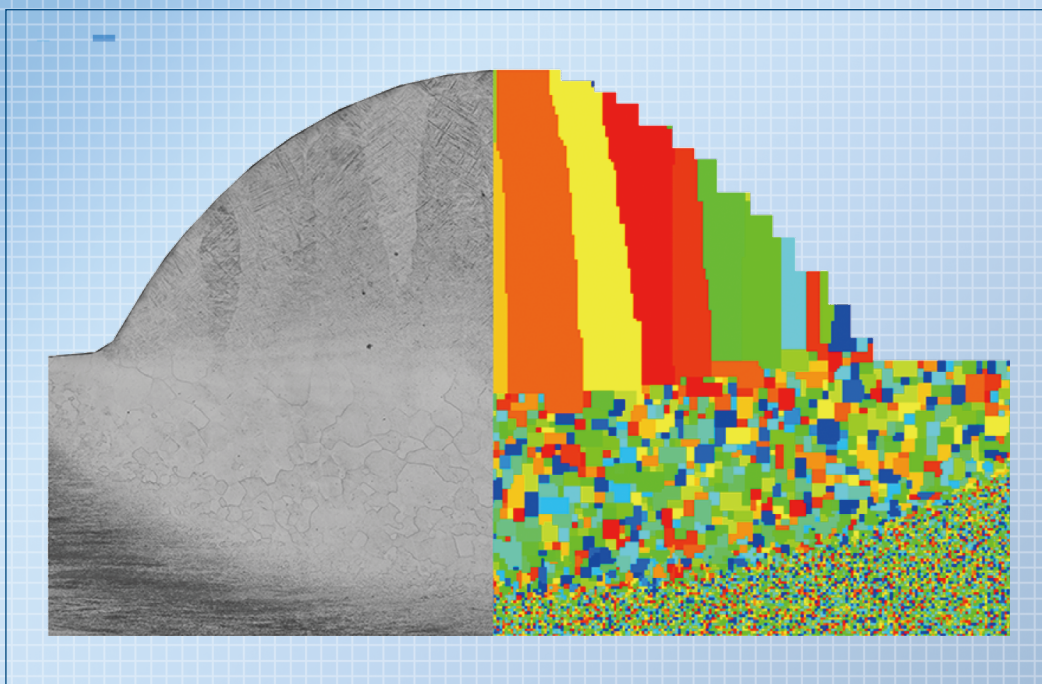


CHINA FOUNDRY

中国铸造



CONTENTS

Vol. 18 No. 2 March 2021

Research & Development

- 83 Grain selection and growth orientation of prior- β phase for Ti-6-4 during additive manufacturing: insights from a modeling perspective
Wei-zhao Sun, Fei-hu Shan, Nan-fu Zong, et al
- 94 Distinctions of dendritic behavior influenced by constant pressure and periodic pressure
Shan Shang, Zhi-peng Guo, Zhi-qiang Han, et al
- 101 Confluence and cold shut computation based on time field in casting simulation
Yong-shuai Feng, Dun-ming Liao, Tao Chen
- 110 Internal shrinkage crack in a 10 t water-cooled steel ingot with a large height-to-diameter ratio
Jing-an Yang, Hou-fa Shen
- 118 Effect of melt cooling rate on glass transition kinetics and structural relaxation of Vit1 metallic glass
Wei Zhang, Qing-chun Xiang, Ying-dong Qu, et al
- 124 Effect of ultrasonic field treatment on degassing of 2024 alloy
Zheng Jia, Bing Yu, Qing Lan, et al
- 131 Effect of ageing treatment on microstructures, mechanical properties and corrosion behavior of Mg-Zn-RE-Zr alloy micro-alloyed with Ca and Sr
Yu Fu, Chen Liu, Hai Hao, et al
- 141 Effect of harmonic magnetic field and pulse magnetic field on microstructure of high purity Cu during electromagnetic direct chill casting
Lei Bao, Da-zhi Zhao, Yin-ji Zhao, et al
- 147 Microstructure evolution and mechanical properties of Mg-12Zn-2Y alloy containing quasicrystal phase fabricated by different casting processes
Ji-guang Liu, Bu-ke Dong, Xiao-gang Fang, et al
- 155 Effects of laser shock processing, solid solution and aging, and cryogenic treatments on microstructure and thermal fatigue performance of ZCuAl₁₀Fe₃Mn₂ alloy
Guang-lei Liu, Yu-hao Cao, Lu-xin Shi, et al

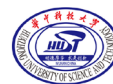
Advertisements

Back cover *FOUNDRY* journal

B1 InteCAST Software

B2 National Joint Engineering Research Center of High Performance Metal Wear Resistant Materials Technology

Partners



State Key Laboratory of Materials Processing and Die & Mould Technology, Huazhong University of Science and Technology



National Joint Engineering Research Center of High Performance Metal Wear Resistant Materials Technology, Jinan University