

## 目 次

- 基于状态观测器的高超声速滑翔飞行器控制系统设计 ..... 陈小庆 侯中喜 刘建霞 (1)  
随机预测控制及其在导弹制导中的应用 ..... 李锐 方洋旺 张平,等 (6)  
基于视线角速度的增强目标可观性研究 ..... 田宏亮 梁晓庚 贾晓洪,等 (11)  
带有终端视线约束的非光滑制导律设计 ..... 马克茂 (14)  
弹道修正中的控制算法 ..... 王中原 史金光 李铁鹏 (19)  
气动力辅助双脉冲最优变轨问题研究 ..... 符俊 蔡洪 张士峰 (22)  
远程制导炮弹非线性模型预测控制器设计 ..... 修观 王良明 (28)  
格栅舵控制巡飞导弹纵向动态特性分析 ..... 许兆庆 吴军基 (33)  
空空导弹擦肩发射全向三维可攻击区计算 ..... 黄国强 南英 陆宇平 (37)  
通用变步长弹道仿真方法研究 ..... 张龙杰 谢晓方 (42)  
弹道预测下的舰艇编队防空火力冲突判定 ..... 姚跃亭 赵建军 杨利斌,等 (47)  
反舰导弹航路规划图形化快速逆推方法 ..... 刘钢 老松杨 谭东风,等 (52)  
基于粒子群算法的防空修正弹控制方法研究 ..... 杨红伟 甘明刚 (57)  
潜射导弹空中分离运动建模与仿真 ..... 刘立栋 张宇文 李雨田 (62)  
超空泡运动体通气加速阶段非定常过程研究 ..... 蒋运华 安伟光 安海 (67)  
弹道目标跟踪的自适应多维分配相关算法 ..... 汤军 孙伟 (72)  
轻型车载火炮二维后坐动力学研究 ..... 宗士增 钱林方 何永,等 (76)  
改性双基推进剂损伤破坏研究 ..... 孟红磊 鞠玉涛 周长省,等 (79)  
发射药床自然堆积模拟 ..... 姜世平 芮筱亭 洪俊,等 (82)  
基于径向约束的单兵光电瞄具建模与仿真 ..... 赵彦峻 徐诚 (87)  
基于光幕靶的曳光弹速度测量系统 ..... 蔡荣立 倪晋平 马时亮,等 (92)  
非对称性对线型聚能射流的影响 ..... 宁强 方向 汪明星 (96)  
装药量及炸点深度对反跑道侵爆战斗部毁伤效应影响 ..... 江增荣 纪君 周邦大,等 (101)  
滑橇高速运动动态效应与滑轨平顺度的关系研究 ..... 张立乾 邓宗才 郭富民,等 (106)

期刊基本参数:CN32 - 1343/TJ \* 1989 \* q \* A4 \* 110 \* zh \* P \* ¥15.00 \* 900 \* 24 \* 2011 - 6

责任编辑:邹娜 英文校订:邹娜

## CONTENTS

Controller Design for Hypersonic Gliding Vehicle Based on Trajectory Linearization Observer	CHEN Xiao-qing, HOU Zhong-xi, LIU Jian-xia (1)
Stochastic Predictive Control and Its Application on Missile Guidance	LI Rui, FANG Yang-wang, ZHANG Ping, et al (6)
Research on Observability Improvement of Target Based on Line-of-Sight Angle Rate	TIAN Hong-Liang, LIANG Xiao-geng, JIA Xiao-hong, et al (11)
Design of Non-smooth Guidance Law With Terminal Line-of-Sight Constraint	MA Ke-mao (14)
Control Method for Trajectory Correction	WANG Zhong-yuan, SHI Jin-guang, LI Tie-peng (19)
Research on Optimal Two-impulse Aeroassisted Orbital Transfer	FU Jun, CAI Hong, ZHANG Shi-feng (22)
Design of Nonlinear-Model Predictive Controller for Extended-range Guided Projectile	XIU Guan, WANG Liang-ming (28)
Analysis on Longitudinal Dynamic Characteristics of Cruise Missile Controlled by Grid Fin	XU Zhao-qing, WU Jun-ji (33)
Calculation of All-Aspect Attack Zone for Air-to-Air Missile Merge	HUANG Guo-qiang, NAN Ying, LU Yu-ping (37)
Research on General Variable Step-size Ballistic Simulation Method	ZHANG Long-jie, XIE Xiao-fang (42)
Predication of Firepower Conflict in Fleet Air-defense by Ballistic Estimation	YAO Yue-ting, ZHAO Jian-jun, YANG Li-bin, et al (47)
Fast Graphic Converse Method for Path Planning of Anti-ship Missile	LIU Gang, LAO Song-yang, TAN Dong-feng, et al (52)
Research on Control Method of Anti-aircraft Correction Ammunition Based on Particle Swarm Optimization	YANG Hong-wei, GAN Ming-gang (57)
Modeling and Simulation of Air Separation Motion of Submarine-Launched Missile	LIU Li-dong, ZHANG Yu-wen, LI Yu-tian (62)
Study on Unsteady Process of Ventilation Accelerated Motion Stage for Supercavitating Vehicle	JIANG Yun-hua, AN Wei-guang, AN Hai (67)
Adaptive Multi-dimension Assignment Algorithm for Tracking Ballistic Target	TANG Jun, SUN Wei (72)
Analysis on Two-dimension Recoil Dynamics of Truck-mounted Artillery	ZONG Shi-zeng, QIAN Lin-fang, HE Yong, et al (76)
Research on Damage and Destruction of Modified Double base Propellant	MENG Hong-lei, JU Yu-tao, ZHOU Chang-sheng, et al (79)
Simulation on Packing Structure of Propellant Bed	JIANG Shi-ping, RUI Xiao-ting, HONG Jun, et al (82)
Modeling and Simulation of Optical-electronic Observation and Sighting Device Based on Radial Restriction	ZHAO Yan-jun, XU Cheng (87)
Velocity Measurement System of Tracer Based on Laser Screen	CAI Rong-li, NI Jin-ping, MA Shi-liang, et al (92)
Effect of Asymmetry on Linear Shaped Charge	NING Qiang, FANG Xiang, WANG Ming-xing (96)
Influence of Charge Weight and Blast Depth on Damage Effect of Anti-runway Penetration-Explosion Warhead	JIANG Zeng-rong, JI Jun, ZHOU Bang-da, et al (101)
Study on Relation of Slide-rail Regularity and High-speed Movement Dynamic Response of Sled	ZHANG Li-qian, DENG Zong-cai, GUO Fu-min, et al (106)