

目次

评述与展望

- 先进镁合金材料及其在航空航天领域中的应用.....丁文江, 付彭怀, 彭立明, 等 (103)
GJB 150A 与 GJB 150 内容对比和分析(二).....祝耀昌, 王建刚, 张建军 (110)

空间环境模拟试验与仿真

- 光学器件的空间粉尘高速撞击效应研究.....董尚利, 刘海, 吕钢, 等 (115)
脉冲激光试验在宇航器件和电路系统抗单粒子效应设计中的初步应用.....韩建伟, 封国强, 蔡明辉, 等 (121)
几种热控涂层的真空-紫外辐照试验.....章俞之, 曹祖真, 吴岭南, 等 (126)
光学材料带电粒子辐照效应等效模拟试验方法研究.....刘海, 刘刚, 肖景东, 等 (132)
DC/DC 变换器抗辐射试验.....侯伟, 姚雨迎, 卓林 (137)
大范围运动刚柔耦合系统动力学建模与仿真.....杨正贤, 孔宪仁, 廖俊, 等 (141)
模拟壳体/燃烧室外压承载能力研究.....任萍, 侯晓, 何高让, 等 (147)

设备研制与材料工艺

- 低温点源黑体关键技术及国内外发展现状.....许杰, 杨林华, 李娜 (151)
大型氦制冷机的净化系统.....李高, 丁文静, 单薇薇, 等 (157)
空间环境用耐低温硅橡胶密封材料研究.....张继华, 任灵, 赵云峰, 等 (161)
无机型磷酸盐胶粘剂粘贴工艺对于有效粘贴的影响研究.....魏元, 徐岱, 冯卫 (167)

航天器总装及专业测试

- 航天器质量特性测试技术新进展.....王洪鑫, 徐在峰, 赵科, 等 (171)
经纬仪测点工艺技术研究.....顾世新, 杨再华 (175)
航天器总装过程特种车辆运输问题的研究.....刘广通, 张满, 赵璐 (179)

管理精英

- 统一外包过程控制的方法与途径探讨.....戴庆平, 陈新华 (183)
航天国际合作项目进度风险管理研究.....蒋志广, 张文杰, 顾佳宁 (187)

设计研究

- 稳态加速度模拟试验设备: 离心机设计(14).....贾普照 (194)

封二: 中国材料研究学会将于5月在京举办“2011中国材料研讨会”

封三: 2011年中国真空学会质谱分析和检漏专委会第16届年会暨中国计量测试学会真空校准专委会第11届年会征文通知

标准解读 (109, 156) 写作技巧 (120) 知识链接 (140, 150) 航天快讯 (160, 170, 174, 193)
院士语录 (178) 编校园地 (182) 征稿简则 (204)

期刊基本参数: CN 11-5333/V * 1984 * b * 16 * 102 * zh * P * ¥20.00 * 3000 * 19 * 2011-04

刊名题字: 宋健

SPACECRAFT ENVIRONMENT ENGINEERING

Vol. 28 No. 2 (Cumulative 119) April, 2011

Bimonthly

CONTENTS

Review and Prospect

- Advanced magnesium alloys and their applications in aerospace..... Ding Wenjiang, Fu Penghuai, Peng Liming, et al (103)
A comparative study of GJB 150A and GJB 150 (Part II)Zhu Yaochang, Wang Jianguang, Zhang Jianjun(110)

Space Environmental Simulation Test and Modeling

- Investigation of effects of hypervelocity impact of space dust on optical components.....Dong Shangli, Liu Hai, Lü Gang, et al(115)
Applications of pulsed laser test on single event effect hardening for aerospace components and circuit systems
.....Han Jianwei, Feng Guoqiang, Cai Minghui, et al(121)
Ultraviolet irradiation tests of some thermal control coatings in vacuum.....Zhang Yuzhi, Cao Yunzhen, Wu Lingnan, et al(126)
Equivalent simulation test of charged particle irradiation effects on optical materials
.....Liu Hai, Liu Gang, Xiao Jingdong, et al(132)
Anti-radiation performance test of a DC/DC converter.....Hou Wei, Yao Yuying, Zhuo Lin(137)
Dynamic modeling and simulation for the rigid-flexible coupling system with large overall motion
.....Yang Zhengxian, Kong Xianren, Liao Jun, et al(141)
The stability of simulated case and chamber under lateral pressure.....Ren Ping, Hou Xiao, He Gaorang, et al(147)

Facility Development and Material Processing

- Key technologies and development of point-source black body working at low temperature.....Xu Jie, Yang Linhua, Li Na(151)
Impurity removal system for a large helium refrigerator.....Li Gao, Ding Wenjing, Shan Weiwei, et al(157)
Low-temperature seal materials made of silicon rubber for space use.....Zhang Jihua, Ren Ling, Zhao Yunfeng, et al(161)
The technique of effective paste of inorganic phosphate adhesive.....Wei Yuan, Xu Dai, Feng Wei(167)

Spacecraft Assembly, Integration and Test (AIT) Techniques

- Recent advances of mass property measuring technology for spacecraft.....Wang Hongxin, Xu Zaifeng, Zhao Ke, et al(171)
Precision analysis of point measurement by theodolites.....Gu Shixin, Yang Zaihua(175)
The transportation with special vehicles during spacecraft integration process.....Liu Guangtong, Zhang Man, Zhao Lu(179)

Management Issues

- Process control for unified external contracts.....Dai Qingping, Chen Xinhua(183)
Schedule management of space international cooperation project based on risk control
.....Jiang Zhiguang, Zhang Wenjie, Gu Jia'ning(187)

Special Design Concerns

- Steady state acceleration simulation test equipment-centrifuge designs(Serial No.14).....Jia Puzhao (194)