

Chinese-English Sample Missile and Space Data

Echtralex Chinese-English Sample Missile and Space Data

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安全包络	safety envelope
安全性	safety
安全性设	safety design
安装	fixed structure
暗通道	dark channel method
八点自由悬吊系统	eight-point free suspension system
半经验方法	semi-empirical method
保障效能	support effectiveness
爆炸分离冲击	pyroshock
爆炸分离装置	explosive separation
爆炸螺栓	explosive bolt
壁板式装配	wall panel assembly
变门限	variable threshold
变转位角	orientation angle
冰堵	ice block
捕获器	capture device
布局布线技术	placement and routing techniques
参数测试	parameter testing
残余结晶相	residual crystallization phases
测发控	test launch control
测试发射流程	test launch process
测试发射周期	test launch cycle
测试方案	test scheme

测试方法	test method
测试状态	test status
长征五号	Long March 5
长征五号运载火箭	LM (Long March)-5 launch vehicle
常温	normal temperature
场测量	vibration measurement
敞口式舱内	open cabin
潮气	moisture
沉头螺栓	countersunk bolt
成熟度	maturity
齿轮泵	gear pump
充放气	charge and discharge
充放气过程	charging and discharging process
冲击响应	impact response
冲击响应谱	shock response spectrum
传力路径	force transfer path
传热特性	heat transfer characteristics
垂直返回	vertical landing
搭载发射	piggy-back mission
大推力入轨	high thrust orbit entry
大型贵重负载	large-scale valuable load
大型运载火箭	large launch vehicle
大直径螺栓	large diameter bolt

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单喷嘴	single element injector
弹道仿真	trajectory simulation
弹塑性	elasto-plasticity
导管	tube
等效力学模型	equivalent mechanical model
低密度	low density
低倾角轨道	low inclination orbit
低温	cryogenic
低温供气连接器	connector of cryogenic gas
低温推进剂利用系统	cryogenic propellant utilization system
底部加热	base heating
底部热环境	base heating
地面分离试验	ground separation test
地面目标定位	ground target location
典型低温连接器	typical cryogenic connector
电磁阀	solenoid valve
电气系统	electrical system
电子干扰装置	electronic jamming devices
调制方式	modulation
迭代制导	iterative guidance
动力学	dynamics
动力学计算	dynamic analysis

动力学模型	dynamic model
动态重构技术	dynamic reconfiguration technology
动特性试验	modal test
锻造变形量	forging deformation
对箭冲击载荷	impact load on rocket
多层热防护结构	multi-layer thermal protection structure
多对象	multi-object
多喷管	multi-nozzle
多任务阶段	multitasking stage
多体动力学	multibody system dynamics
多余物	remainders
恶劣环境	harsh environment
发电	power generation
发电机	electric generator
发射服务	launch services
发射平台	launch pad
发展展望	development prospect
反馈	feedback
方案优化	optimization scheme
防护措施	protective measures
防晃板	slosh baffle
防晃挡板	sloshing suppression baffle

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防倾覆	anti-overturn
防热结构	thermal protection-structure
防塌陷	collapse defense
仿真分析	simulation analyses
仿真平台	simulation platform
飞行 $Q\alpha$ 值	$Q\alpha$ value in flight
飞行智能化	intelligent flight
非对称四通件	asymmetric cross part
非正侵彻	non-normal penetration
非正撞击	non-normal impact
分段优化	segment phase optimization
分离点参数	separation point parameters
分离系统	separation system
分离系统设计	separation system
风载荷	wing load
冯·卡门整流罩	Von-Karmen fairing
负压	negative pressure
复合材料	composite materials
复合结构	composite structure
复杂三维走向	complex three-dimensional route

改进算法	proved algorithm
高超声速飞行器	hypersonic vehicle
高低倍组织	high and low magnification
高过载	high overload
高可靠	high reliability
高空风	high-altitude wind
高空模拟	high altitude simulation
高纬度观测太阳	observe the Sun from high latitude
高温合金	superalloy
高压补燃	staged combustion
高压缩比	high compression ratio
隔热	thermal protection
工程算法	engineering method
工艺流程	process flow
共固化	co-curing
故障辨识	adaptive fault identification
故障诊断	fault diagnosis
关键技术	key technologies
关键路径法	critical path method
关节	joint
管路	pipeline
管路堵头	pipe plug
惯性平台	inertial platform
光纤光栅	fiber grating

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过滤器	filter
海上发射	sea launch
焊接残余应力	welding residual stress
航天器	spacecraft
航天强国	space power (nation)
航天运输系统	space transportation system
航天装备	space equipment
耗尽关机	fuel depleted shutdown
核心技术	core technology
环形引射器	annular ejector
混合译码	hybrid decoding
混合总线	hybrid bus
活动发射平台	mobile launch platform
火箭发动机	launch vehicle engine
火箭发动机舱	rocket engine cabin
激光粉末沉积	laser powder deposition
级间分离装置	interstage separation device
极性	polarity
集成产品开发团队	integrated product team
技术探讨	technical discussion
夹层结构	sandwich-structure
间隙配合精度	bolt clearance
卸载技术	load-relief control

减振	vibration suppression
检测方法	detection method
简化建模	simplified modeling
建模与仿真	modeling and simulation
降阶解耦矩阵	reduced-order decoupling matrix
降热	heat flux reduction
角度差	angular difference
角位移	angular displacement
角振动传递特性	angle transfer characteristics
铰链补偿器	hinged expansion joint
结构设计	structural design
借力飞越	flyby
金属基体	metal matrix
金属膜盒式	metal bellows
紧固件	fasteners
近似解析解	approximate analytic solution
禁飞区	no-fly zone
经典 SISO 译码	classical SISO decoding
精度评估	accuracy evaluation
精细化	refined
径向通道	radial channel
聚三氟氯乙烯	polychloro-trifluoro ethylene

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卷积神经网络	convolutional neural networks
可靠性	reliability
可靠性模	reliability model
可重复使用航天器	reusable launch vehicle, RLV
空气舵	air rudder
空气舵前缘	leading edge of air rudder
空气炮	gas gun
孔型设计	injection orifices geometry
控制策略	control strategy
控制分配	control allocation
控制技术	control technology
控制律重构	control law reconfiguration
控制平台	control platform
控制容错	fault tolerance
控制系统	control system
快速响应	operationally response
拉伸性能	tensile properties
拉弯耦合	tensile and bending coupled load
雷达信号识别	radar signal recognition
冷却通道	cooling channel
理想速度曲线	the perfect speed curve
粒子群优化	orbit design
连续型机械臂	continuous manipulator
链路标定	link calibration

零序空间开环	zero-sequence space open loop
流阻分析	flow resistance analysis
滤网	filter
螺栓法兰连接	bolted flange
脉动热管	pulsating heat pipe
铆接装配技术	riveting assembly technology
密封	seal
面对称战斗部	plane-symmetric warhead
膜片式金属膜盒	metal diaphragm bellows
末制导	terminal guidance
耐腐蚀性	corrosion resistance
能量分析模型	energy analysis model
能量管控	energy management and control
能量管理	energy management
逆向喷流	counter flowing jet
拧紧力矩	tightening torque
牛顿欧拉法	Newton Euler method
耦合分析	coupling analysis
喷管控制	nozzle control
喷流	engine jet
疲劳失效	fatigue failure
疲劳寿命	fatigue life
疲劳损伤	fatigue damage

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偏置大集中载荷	eccentric and large concentrated force
偏置集中力	offset concentrated force
频率特性	frequency characteristic
评估方法	evaluation methods
破片初速	initial velocity of fragment
起飞漂移	lift-off drift
气动加热	aerodynamics thermal
气氧/气甲烷	GOX/GCH4
气液连接器	gas-liquid connector
欠驱动	under-actuation
强度校核	strength check
氢喷射温度	hydrogen injection temperature
氢喷嘴	hydrogen nozzle
氢箱	hydrogen liquid fuel tank
氢氧发动机	LOX/LH2 rocket engine
氢氧推力室	hydrogen oxygen thrust chamber
曲面锥	curve-cone
驱动控制系统	drive control system
全程优化	whole phase optimization
全箭	launch vehicle
全链路	full link

全数字	digital
燃料最优	fuel optimization
燃气动力学	gas dynamics
燃烧传热	combustion and heat transfer
燃烧特性	combustion characteristics
热防护	thermal protection
热防护设计	thermal protection design
热环境	heat environment
热流密度	heat flux
热喷涂涂层	thermal spray coating
热试验	hot fire test
热塑	thermoplastics
任务规划	mission planning
任务重构	task reconfiguration
容错控制	fault-tolerant control
容器	vessel
三铰链管路	three-hinge pipe
筛网通道	screen channel
烧蚀	ablation
烧蚀材料	thermal materials
烧蚀试验	ablation test
烧蚀温度	ablation temperature
设计方法	design method
设计改进	design improvement
设计与验证	design and validation

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射向	launch azimuth
深低温测量	measuring device for deep cold environment
深宽比	aspect ratio
生成对抗网络	adversarial learning
声学频率	acoustic characteristics
失效判据	failure criterion
时差定位	time difference of arrival
时频变换	time-frequency transformation
实用方法	practical method
始锻温度	initial forging temperature
试验	test
试验对比	experimental comparison
试验方法	experiment method
寿命	fatigue life
受力分析	stress analysis
疏导式热防护	dredging thermal protection
数据失效	data failure
数值分析	numerical analysis
数字化	digital
数字信号处理器	digital signal processor
双曲线轨道	hyperbolic orbit
双线性弹簧	bilinear springs
四元数调姿规划	quaternion attitude

	adjustment planning
伺服	servo
伺服电机	servo motor
伺服机构	servo mechanism
伺服用电特性	servo power consumption characteristics
速度控制	speed control
损伤本构	dynamic damage constitutive
损伤分析	damage analysis
损伤破坏进程模拟	damage simulation process
缩比喷注器	sub-scale combustor
锁紧及解锁方案	locking and unlocking scheme
太阳极轨	polar orbit of the Sun
钛合金	titanium alloy
特斯拉涡轮	tesla turbine
图像处理	image processing
推力故障	thrust failure
推力室	thrust chamber
推力室	thrust chamber
脱落可靠性	falling reliability
拓扑优化	topology optimization
伪谱	pseudospectral
伪谱法	Gauss Pseudospectral Method, GPM
伪谱法	pseudo-spectral method

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未来展望	expectation
位置伺服系统	positional servo system
稳定	stability
无刷直流电机	Brushless DC motors
无源定位	passive positioning
五相开绕组永磁容错电机	five-phase open-winding permanent magnet fault-tolerant motor
误差折合	error reduction
雾图像恢复	fog image recovery
下一代武器系统	next generation weapon system
线角耦合	translation-rotating coupling
响应曲面设计	response surface design
响应性能	close response
小推力变轨	low-thrust trajectory
效率分析	efficiency characteristic
协同设计	collaborative design
协同制导	cooperative guidance
新一代大型运载火箭	new generation large launch vehicle
行星转移发射轨道	interplanetary trajectory
形-性协同制造	forming-property

	collaborative manufacturing
形态	form
蓄电池	battery
蓄压器	accumulator
压降	pressure drop
压力脉动	pressure ripple
研制应用分析	development and application analysis
摇摆动态精度	rocking dynamic accuracy
液体火箭	liquid rocket
液体火箭发动机	liquid rocket engine
液体获取装置	liquid acquisition device
液体运载火箭	liquid launch vehicle
液压缸活塞杆	piston rod of hydraulic cylinder
一箭多星	multiple-payload
一体化	integrate
仪器设备	equipment
异构	dissimilar redundancy
应变测试	strain test
应力	stress
优化设计	optimization; optimize design
有限差分法	finite-difference method
有限元	finite element method, FEM
有效载荷整流罩	payload fairing

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预测校正制导	predictor-corrector guidance
预紧力	bolt stress
圆误差概率	Circular Error Probability, CEP
远程	long range
月球轨道	lunar transfer orbit
运动学	kinematics
运输车	transport vehicle
运载火箭	launch vehicle; carrier rocket
运载能力	carrying capacity
载荷强度	loading and strength
再入飞行器	reentry vehicle
再入偏差	reentry error
再入制导	reentry guidance
在线调姿规划	on-line attitude adjustment planning
增材制造技术	additive manufacturing
折衷规划	compromise programming method
针栓喷注器	pintle injector
振动	vibration
振动特性	vibration characteristics
整体成形	integral forming
直接返回再入	direct return reentry
直流喷嘴	plain orifice nozzle
指标体系	index system

制导、导航与控制	guidance navigation and control
智能化战争	intelligent war
智能姿控	intelligent attitude control
置信域算法	trust-region algorithm
中小型卫星	medium and small satellites
终端速度	terminal velocity
重力矢量测量	gravity vector measurement
重型火箭发射平台	heavy rocket launch platform
重载升降装置	heavy load lifting device
主动段	ascent stage
助推器	booster
注气式蓄压器	gas filled accumulator
贮箱	propellant tank
转矩脉动	torque ripple
转弯能力	maneuverability
装配虚拟仿真	virtual assembly simulation
准连续型机械臂	quasi-continuous manipulator
姿控	attitude control
姿态控制	attitude control
自动对接	automatic docking
自动监测	automatic monitoring
总体方案	system scheme
总体设计	overall design
阻尼	damping

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组合电源	combined power supply
最大过载最小	joint optimization algorithm
最小动压约束	minimum dynamic pressure constraint
最优控制	optimal control
作动系统	actuation system
12 点调平比例积分微分控制	12-point support leveling
2D C/SiC 复合材料	2D C/SiC composite
Dubins 曲线	Dubins curve

ECRS 方法	ECRS [Eliminate Combine Rearrange & Simplify] method
Hough 变换	Hough transform
hp 自适应伪谱法	hp-adaptive pseudospectral method
PMI 泡沫夹层	PMI foam sandwich
PWM 作动器	PWM actuator
TC4 钛合金	titanium alloy forgings
TPC 码	turbo product code