<<第26届中国飞行器测控学术会议论文

图书基本信息

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内容概要

《第26届中国飞行器测控学术会议论文集——共享灵活的测控系统》精选并收录了第26届中国飞行器测控学术会议的优秀论文42篇。

内容覆盖了测控总体技术、测量与控制技术、信息传输与处理技术、弹道轨道与导航技术等4个方面 ,反映了我国航天测控领域的最新科研进展。

本书可供相关领域的研究人员以及工程技术人员阅读参考。

<<第26届中国飞行器测控学术会议论文

书籍目录

Ħ	录	到	顶	部
_		E.	1 1 2%	ши

《第26届中国飞行器测控学术会议论文集——共享灵活的测控系统》

part i spacecraft tt&c system design and research

1 space-based ma tt&c system and technologies

jianping hu, hongjun yang and maoge xu

2 the investigation of a novel reentry telemetry system

xingwen ding, ming chen, xifu huang and ling wu

3 research on united tracking schemes based on a new information

frame format

haitao nan, zhiqiang li, wenming zhu, peng jia and feilong li

4 a research on the architecture design of space tracking,

telemetry and control networks

xiangyang lu, lijuan jla, jin hu, jianguang wu and shiyong du

5 discussion on integration management of tt&c

information

yunsheng hao and linfeng shang

6 informatization maintenance of tt&c system based on cbm

meng ren, weijing zhou, jianhua guo and zhongkai guo

7 preliminary research on management of crosslinks of navigation

constellations and their security system

kunmei cao, taoming chen and bo wang

8 study on threats to security of space tt&c systems

gi wang, bo wang and bin wu

9 construction strategy research on new generation central computer

system of launch centre

shijie song, zhe wang, liping zhang and yongliang yang

.10 the application of

ofdm in uav telemetry

hailong zhao, jian zhang and jie zhou

11 tt&c system design based on protocols and master-slave

structure

feng xu, xiaofang wang and jianhong zhao

12 study on the application of It code technology in deep space

communications

tong guo, daheng zhao and xudong li

13 application of multicarrier 2-dimension spread spectrum in

aerospace tt&c

jinbao wang, wenge yang and dong liu

14 parameter estimation of frequency hopping signals based on time

frequency analysis

wenge yang, meng li, libin wang and hao zhang

part ii instrumentation and control technology

15 flexible hemispherical simultaneous multi-beam tt&c

technology

pengyi wang, yongfei kong and haizhou wu

16 fast identification and modification of angle error based on prior information of velocity-measurement radar jianping pan, bo giang, zongwei liu, yanan hu and shengxi

17 optimized simulation analysis of netted ground-based radars for near space vehicle

daqing chen, dan liu, rongchun wang and zhe zhang

18 techniques of high efficiency and linearity transmitter

tao cao, rong zeng and youjiang liu

19 analysis of feed defocus's effects on a ka-band parabolic antenna

quolong he

20 study on isar imaging of stepped-frequency chirp signal

haotian yuan, shuliang wen and zhen cheng

21 a carrier acquisition and tracking algorithm for high-dynamic weak signal

ruifeng duan, rongke liu, you zhou, gingping song and zhigiang

22 an acquisition algorithm for ds/fh tt&c signal using subband-accumulation method

xiao chen, zhiqiang li, wenming zhu and dekan lou

23 anti-fading analysis of diversity-synthesized technology

mingxin kou and jun yan

24 analysis on the application of feed-forward technology for space tracking, telemetering and control ships

dingxin yang and ting yuan

25 a telemetry data fusion method based on optimal weighted

ping jiang, yangwei dong and xuemei zou

26 a data fusion method of multi-sources measurement data based on

federated ukf filter

hong chen, jian jiang and lin wang

27 dim and weak target detection technology based on

multi-characteristic fusion

jia tang, xin gao and gang jin

28 distortion correction for optical measurement systems in a test range

rujie wang, liangliang wang, lei zhang and jia tang

part iii information transfer and processing

29 research on multi-path gos routing strategy for the satellite network

guanghua song, mengyuan chao, bowei yang, hua zhong and yao zhena

30 constant modulus blind equalization analysis for high speed implementation

dalong yang, dahai chen and wen kuang

31 study on space mission ip network gos technologies

yunjun chen, yan liu and shengwang xu

<<第26届中国飞行器测控学术会议论文

32 system level design of address allocation for a private ip network

yalin huang, zongyin zhao, yan liu and xu yao

33 research on the qos guaranteed mechanism for the private ip network

lihua liu, tun wu, zongyin zhao and qian zhang

34 distributed data service platform based on narrowband network environment

xu yan, guoping hu and dahai zhai

35 impact analysis of the leap second to the computer system in

beijing aerospace control center

tonghua li, yuqiu liang and xia wang

36 the exploration and practice of itinerant testing for tt&c

device software at the launch range

peng fu, wei li, liang zhao, wei zhang and jing zhang

37 research on quality assurance method based on software defect analysis

gianran si and guoying yan

part iv trajectory, orbits and navigation

38 single-station orbit determination with astrometric positioning and slr techniques

guoping chen, xiaogong hu, yong huang, yong yu, zhenghong tang,

zhongping zhang and yezhi song

39 on nominal formation flying orbit with a small solar system body

yuhui zhao, shoucun hu, xiyun hou and lin liu

40 on orbit control utilizing solar sails around asteroids

shengxian yu, xiyun hou and lin liu

41 orbit determination of lunar probe brake course based on

compensation to dynamic parameters

shijie chen, lan du, zhongkai zhang, quying danzeng, ruopu wang, he wang and gifu zhang

42 a modified iae algorithm for gnss and imu integration.

peng li, chan li, xiangjun wu and zhonggui chen

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章节摘录

插图: 13.3.2.1 Synchronization Technology Signal synchronization is vital, because it directly affects whether subsequentsignals could be processed normally and the acquisition of measurement infor-mation. The synchronization of MC-2D-SS includes the carrier synchronization, symbol timing synchronization and clock synchronization. Carrier synchronizationis to provide a coherent carrier which is the same frequency and phase withreceived signal. Symbol timing synchronization is to determine the beginning andending time of each OFDM symbol, which also mean determining the accurateFFT position of the window. Clock synchronization is to ensure that the receiving terminal and the sending terminal have the same sampling frequency. Among them, Carrier and symbol timing synchronization methods are generally divided into three types: 1. data aided algorithm: estimation based on the specific training information which was embedded in a transmitted signal. 2. un-data aided algorithm (or blind algorithm): The synchronization relies entirely on OFDM signal itself or its spectral characteristics. 3. algorithm based on the cyclic prefix: estimation by using the signal's cyclic prefix. In the three algorithms, data aided algorithm is fast, accurate and highly reli-able, which could extend the estimation range by appropriate select samplenumber between training symbols, but the transmission of auxiliary symboloccupies system resources and reduces the utilization efficiency of spectrum resources. Blind synchronization only applies to some cases whose estimation performance is general and complexity is high. The merits of the algorithm based on cyclic prefix are that the calculation amount is small and the algorithm is simple, but the frequency estimation range is small and the time estimation is rougher. In addition, because the received signal is a spread spectrum signal and we know the received signal spread spectrum sequence, so we could adopt the related method to estimate the carrier frequency and symbol time. In aerospace TT&C, because of the high relative velocity between spacecraft and ground station, there exists large Doppler frequency offset, which will destroy the orthogonality between sub-carriers of MC-2D-SS and lead to the mutual interference between the sub-channels. So how to realize the carrier synchroni- zation of MC-2D-SS signal with large Doppler frequency offset is the priority among priorities.

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