



ISSN 1006-009X
CN 22-1135/TH

气象水文海洋仪器

主办单位：中国仪器仪表学会气象水文海洋仪器分会 长春气象仪器研究所

METEOROLOGICAL, HYDROLOGICAL AND MARINE INSTRUMENTS

气象水文海洋仪器

第三十五卷
第二期

二〇一八年六月

ISSN 1006-009X



9 771006 009182

2

2018

第35卷

(总126期)

气象水文海洋仪器

第 35 卷 第 2 期 (总第 126 期) 2018 年 6 月

目 次

研究与探讨

- 铂电阻温度传感器检定结果的不确定度分析与评定 魏明明, 郑德彬, 刘禹杉, 等 (1)
- 风速检定装置的不确定度评定 韩玉婷, 吴丽娜, 汪鑫 (5)
- SL2-1 型翻斗式雨量传感器误差分析与调节方法探讨 周桃成, 李毅聪, 魏明明 (10)
- 一维相控阵天气雷达的强度定标方法 程张凡, 郝立勇, 刘琦 (14)
- 降水量的加权型马尔科夫模型预测 张祥, 陈军, 陆雨, 等 (18)
- 强对流天气对高空气象探测的影响及应对措施 董福镇, 缪集群, 钟凯仪 (21)
- 新地面气象观测规定下轻雾和霾的观测 王国强, 林磊, 任义方, 等 (25)
- 双流机场风切变预警系统方案设计及 LLWAS 算法研究 郭忠立 (28)

设计与应用

- 基于 ATxmega256A1 的声学测波仪设计 杨英, 惠力, 万婧, 等 (32)
- 称重式降水传感器防冻仪的设计与应用 刘峰, 廖华, 易建平, 等 (37)
- 雷达现场测试与诊断移动平台在业务上的应用 李俊, 蔡宏, 聂成, 等 (41)
- 环渤海海域气象数据获取与 GIS 显示 李永超, 王洪祥 (52)
- 天津市综合气象探测业务智能监控及评估系统设计 姜明, 史静, 党岳, 等 (57)
- 丽水 96121 系统的设计与实现 项晓美, 姜燕敏, 郑雯婧, 等 (63)

维护与维修

- CINRAD/SA 雷达天线动态故障的诊断方法及个例分析 胡学英, 吴少峰, 刘霞 (68)
- 校园气象站的安装与维护 侯江生, 邹哲馨 (73)
- 一次自动气象站故障排除分析 覃晓玲, 黄秀秀, 彭昊 (77)
- DZZ3 型自动气象站常见故障的处理方法 沈玉亮, 方海涛, 陆斌, 等 (80)
- DPZ1 综合集成硬件控制器常见故障排查和处理 许杰文, 龚成龙, 姜建萍, 等 (87)
- DPZ1 型综合集成硬件控制器故障排查方法 蔡明, 陈宁, 陈城, 等 (91)
- 新型自动气象站一次地温异常排除及分析 卢帮维, 李茂, 何金辉 (96)
- 费县国家基本气象站的一次通信故障解析 于富荣, 于旭平, 曹兴锋, 等 (99)

防雷技术

- 等电位连接在雷电防护中的应用 张晴雯 (102)
- DZZ5 新型自动站一次雷击故障的分析处理 刘彬, 李明亚, 刘亿 (106)

综述

- 地基遥感大气温湿风垂直廓线观测方法综述 王志诚, 张雪芬, 茆佳佳 (109)
- 用测量准确度还是用最大允许误差——对气象仪器测量性能指标用术语和评定方法的探讨
..... 张玉存, 田耕, 王明蕊 (117)
- 2018 中国青岛国际海洋科技展览会 (扉一)
- OI 国际海洋技术与工程设备展览会 (扉二)
- 征稿简则 万方数据 (9)

Meteorological ,Hydrological and Marine Instruments

Vol.35 No.2 (Sum 126) Jun. 2018

Contents

Research and Disussion

- Analysis and evaluation on uncertainty of verification results of platinum resistance air temperature sensor Wei Mingming,Zheng Debin,Liu Yushan ,et al.(1)
- Uncertainty evaluation of wind speed verification device Han Yuting ,Wu Lina,Wang Xin (5)
- Discussion on error analysis and adjustment method of SL2-1 tipping-bucket rainfall sensor Zhou Taocheng ,Li Yicong ,Wei Mingming (10)
- Intensity calibration method of one-dimensional phased array weather radar Cheng Zhangfan ,Hao Liyong ,Liu Qi (14)
- Prediction for the precipitation using a weighted Markov model Zhang Xiang ,Chen Jun ,Lu Yu ,et al.(18)
- Influence of strong convective weather on high altitude meteorological observation and its countermeasures Dong Fuzhen ,Miao Jiqun ,Zhong Kaiyi (21)
- Observation of light fog and haze based on the new criterion of surface meteorological observation Wang Guoqiang ,Lin Lei ,Ren Yifang ,et al.(25)
- Design of wind shear alarming system for Shuangliu airport and LLWAS algorithm research Guo Zhongli (28)

Design and Application

- Design for the acoustic wave observing instrument based on ATxmega256A1 Yang Ying ,Hui Li ,Wan Jing ,et al.(32)
- Design and application of anti-freezing instrument for weighing precipitation sensor Liu Feng ,Liao Hua ,Yi Jianping ,et al.(37)
- Application of radar field test and diagnosis mobile platform in business Li Jun ,Cai Hong ,Nie Cheng ,et al.(41)
- Meteorological data acquisition and GIS display in Bohai Sea area Li Yongchao ,Wang Hongxiang (52)
- Design of intelligent monitoring and evaluation system for integrated meteorological observation service in Tianjin Jiang Ming ,Shi Jing ,Dang Yue ,et al.(57)
- Design and implementation of Lishui 96121 system Xiang Xiaomei ,Jiang Yanmin ,Zheng Wenjing ,et al.(63)

Maintenance and Repair

- Diagnosis method for antenna dynamic fault of CINRAD/SA radar and case analysis Hu Xueying ,Wu Shaofeng ,Liu Xia (68)
- Installation and maintenance of campus weather station Hou Jiangsheng ,Zou Zhixin (73)
- Analysis on a fault troubleshooting of automatic weather station Qin Xiaoling ,Huang Xiuxiu ,Peng Hao (77)
- Handling methods for common faults of DZZ3 automatic weather station Shen Yuliang ,Fang Haitao ,Lu Bin ,et al.(80)
- Common troubleshooting and handling of DPZ1 integrated hardware controller Xu Jiewen ,Gong Chenglong ,Jiang Jianping ,et al.(87)
- Fault handling methods for DPZ1 integrated hardware controller Cai Ming ,Chen Ning ,Chen Cheng ,et al.(91)
- Troubleshooting and analysis for a soil temperature anomaly of new automatic weather station Lu Bangwei ,Li Mao ,He Jinhui (96)
- Analysis for a communication failure of Feixian national basic meteorological observing station Yu Furong ,Yu Xuping ,Cao Xingfeng ,et al.(99)

Lightning Protection Technology

- Application of equipotential connection in lightning protection Zhang Qingwen (102)
- Analysis and processing of a lightning strike fault of DZZ5 new automatic weather station Liu Bin ,Li Mingya ,Liu Yi (106)

Summary

- Overview of ground-based remote sensing observation techniques for air temperature ,humidity and wind profiles Wang Zhicheng ,Zhang Xuefen ,Mao Jiajia (109)
- Using measurement accuracy or maximum allowable error :A study on terminology and evaluation methods for measuring performance indexes of meteorological instruments Zhang Yucun ,Tian Geng ,Wang Mingrui (117)