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1.   136201   2.   430064

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GPS

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1

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2

1

1.2

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3

2

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1		1	
		2	6
		3	
		1	
		2　　　　　　　　　　CASS	2
2		1	
		2	12
		1	
		2	8
		3	
3		1	
		2　　CASS	6
		3	
		4　　CASS	
		1	4
		2 EPSW	
		1	4
		2　　　EXCEL	
4		1 CASS	
		2 CASS	12
		3 CASS	
		4 CASS	
		1 CASS	4
		2 CASS	
5		1	2
		2　　CASS	4
6		1	
		2	4
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		1	
		2	2
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7	CASS	1	4
		1　　　　　CASS	2
		2　　　　　CASS	
		1　CASS	2
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GIS

GIS

GIS

$Y=X+X$　　　　　　　X　　　　　　　Y

GIS

$Y=2X$　　　　　Y　　　　　　GIS

[1]　　　　　　　　　　　　　　　　　　　　　　.
　　　　　　[M].　　　　　　　　　　　,2005
[2]　　　　，　　，　　．　　　　[M].　　　　　　　　　　　　,1999
[3]　　　　，　　　　，　　　　，．　　　　　　　　　　　[M].
　　　　　　　　　,2005
[4]　　　　，　　，　　．　　　　　　　[M].
　　,2003
[5]　　　　．GPS　　　　[M].　　　　　　　　,2004
[6]　　．GIS　　　　　　　　　　　　[J].　　　　　，
　　2005,28(1):43-45
[7]　　　　．GIS　　　　　　　　　　　　[J].
　　　　2007,32(5):193-195
[8]　　　，　　，　．　　　　　　　　" GPS
　　"　　　[J].　　　　　　2005,62(4):70-73
[9]　　　，　　，　　，．GIS
　　　　[J].　　　　　2005,3(2):38-40

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[1]　　　　　　．　　　　　　　　　　　　[J].
　　　　2005 5 62-64??
[2]　　　　　　．　　　　　　　　　　[J].
　　　　　　2003 12 72-74
[3]　　　　　．　　　　　　　　　[J].
　　　　2007 2:55-58
[4]　　．　　　　　　　　[J].　　　2006 29 2
　　94-96
[5]　　．　[M].　　　　　2010
[6]　　　．　　　　　[J].　　2003,19
　　(1) 45-47
[7]　　．　　　　　　　　　　[J].
　　2010(21) 326-327

Abstract　Urgent monitoring of earthquake disasters need thematic mapps of remote sensing. According to the distribution of the earthquake and the secondary disasters, classifications and coding of disaster information were analyzed. With the national basic scale topographic maps and thematic map symbols of the type, size, color etc separately defined at different scales, it was produced that thematic symbol library of the corresponding earthquake and secondary disasters. Meanwhile, standard for thematic maps of the disaster and the secondary disasters was formed. The templates met the cartography requirements of GIS applications, which can provide accurate disaster information and affected body quickly, and improved the mapping efficiency. It is useful to save time for the rescue and assure the earthquake relief work can be undertaken smoothly.
Key words　earthquake, the secondary disasters, symbol database, mapping templates　　　　　　　　　　　　Page:153

Preliminary Understanding and Simple Analysis of Numerical Calculation Errors　　　　　　　　　　　　　　by　LIU Ping

Abstract　This paper introduced the classification of numerical calculation errors, and used math expressions as examples to illustrate truncation error. According to IEEE754 criterion, this paper used math expressions to explain rounding error. Then this paper simply analyzed the truncation error and rounding error. At last, this paper pointed out attentions in the numerical calculation.
Key words　numerical calculation　calculation errors　preliminary understanding　simple analysis　　　　Page:156

Application of the Second Land Investigation's Result to Daily Land and Resources Management　　　　　　　　by　XU Yong

Abstract　This paper introduced the basal informations, technical route, investigating methodology and investigation's result of the WUHAN Second Time Land Investingation, and discussed the applicating of the Second Time Land Investigation's result based on the daily Land and Resources Management's requirement.
Key words　land investigation　land management, cadastral management　　　　　　　　　　　　　　　Page:159

Method for Prediction of Landslide by Phase Space Reconstruction　　　　　　　　　　　　　　by　XIONG Tianan

Abstract　In view of the nonlinear characteristics of landslide displacement time sequence, this paper introduced the prediction method based on phase space reconstruction and least squares support vector machine (LSSVM). Used Cao's method to determine the embedding dimension, according to mutual information method to compute the best delay time; Then in the phase space, used least squares support vector machine (LSSVM) to establish the forecast model to compared with LSSVM and the neural network predicting mode. The test result show that the model has the high precision, is scientific and feasible.
Key words　predictable mode; landslide prediction; phase space reconstruction; least squares; neural network　　Page:162

Application of SET 1X Total Station Device to Tunnel Through Survey　　　　　　　　　　　　　by　CHEN Sansheng

Abstracts　Combined with the application in Pusagang tunnel through survey of Yalu Highway of SET 1X total station device,elaborated the adoptive ways and technical measurements of tunnel through survey so as to make sure the accurate perforation of the tunnel.
Key words　total station device, Pusagang tunnel , perforation survey, control survey　　　　　　　　　　　　　　Page:165

Evaluation of Uncertainty of GPS Receiver Calibration and Calibration Results　　　　　　　　　　　　　　by　HE Hao

Abstract　Based on the actual calibration GPS receiver's experience, through the GPS receiver calibration method of in-depth research, with

practical examples, the calibration process problems encountered were analyzed and investigated
Key words　GPS receiver Calibration　measuring error　uncertainty　　　　　　　　　　　　　　　　Page:168

Establishment of Monitoring Data Processing and Analysis System with Excel VBA Programming　　　　　　　by　ZHU Xingang

Abstract　Excel is popular office software which we often use at work. Excel itself provides a strong secondary development function, VBA, which has powerful programming capabilities. This article described how to use Excel VBA to create a complete deformation monitoring system to realize simple, rapid, accurate and automated monitoring job.
Key words　Excel　VBA　deformation monitoring data processing and analysis system　　　　　　　　　Page:170

Application of Robotic Total Station in Volume of Vertical Metal Cans　　　　　　　　　　　　　　by　ZHU Lianghua

Abstract　The application of robotic total station in volume surveying of vertical metal cans was introduced in this paper. The surveying preparation work, fieldwork, data processing and key technology were discussed detailed combining an example.
Key words　total station　vertical metal cans　volume surveying　　　　　　　　　　　　　　　　Page:173

Matlab and Visual C++ Mixing Programming to Process the Data of the South Total Station　　　　　　　　　by　HU Jiaxing

Abstract　During the indoor work data checking, we often compared the point's field work coordinate with its indoor work coordinate. So we could find if there be some points were artificial, or some points had been moved. At the same time, the processed data could direct provide the three dimension coordinate, it was helpful for the next measure work. This article took the South total station instrument for example, based on matlab and Visual C++ mixing programming to generate the directly executable file, which could separate from the MTALAB environment,then gave the code and the images of the result.
Key words　MTALAB , hybrid programming , data processing　　　　　　　　　　　　　　　　　Page:175

Research of Teaching Content in Digital Surveying & Mapping　　　　　　　　　　　　　　by　MENG Fanchao

Abstract　Based on the production units of the engineering survey mapping and technical personnel needs, and for "Digital Mapping" characteristics of the course to a topographic mapping of the main line to explore the teaching content and practice, through the constant adjustment and reform to improve Higher engineering professional teaching quality measurement techniques, enhanced their ability and employability and competitiveness.
Key words　Digital Surveying & Mapping　teaching research　　　　　　　　　　　　　　　　　Page:178

Strengthening the teaching of surveying error theory for GIS　　　　　　　　　　　　　　by　ZHAO Dongbao

Abstract　Surveying error analysis and treatment is the basic theory which lay a solid foundation for students majored in GIS studying surveying courses, and is also the key to understand surveying principle of various surveying courses. Aiming at the problem that many colleges lacked the uniform plan for surveying error theory course teaching for GIS major students, teaching contents of surveying error theory course for GIS major students were discussed, and teaching schedule was arranged based on characteristic of surveying error theory teaching, and teaching methods of surveying error theory course for GIS major students were listed according to related teaching experience.
Key words　GIS major　surveying error theory　teaching contents　teaching method　　　　　　　　　Page:180