

中国地震科研课题总览

(2005)

中国地震局



地震出版社

中国地震科研课题总览

NATIONAL PROGRAM ON EARTHQUAKE STUDIES

(2005)

中国地震局

地震出版社

图书在版编目 (CIP) 数据

中国地震科研课题总览 . 2005 / 中国地震局 . — 北京 : 地震出版社 , 2007. 6
ISBN 978 - 7 - 5028 - 3081 - 6

I. 中… II. 中… III. 地震学—科学研究—中国—2005 IV. P315

中国版本图书馆 CIP 数据核字 (2007) 第 068155 号

地震版 XT200700138

中国地震科研课题总览 (2005)

中国地震局

责任编辑：江 楚

责任校对：王花芝

出版发行：地震出版社

北京民族学院南路 9 号 邮编：100081
发行部：68423031 68467993 传真：88421706
门市部：68467991 传真：68467991
总编室：68462709 68423029 传真：68467972
E-mail：seis@ ht. rol. cn. net

经销：全国各地新华书店

印刷：廊坊建福印刷厂

版 (印) 次：2007 年 6 月第一版 2007 年 6 月第一次印刷

开本：787 × 1092 1/16

字数：442 千字

印张：17.25

印数：001 ~ 550

书号：ISBN 978 - 7 - 5028 - 3081 - 6/P · 1321 (3752)

定价：70.00 元

版权所有 翻印必究

(图书出现印装问题，本社负责调换)

编 委 会

主 编：修济刚

副主编：牛之後 阴朝民 周清良 方韶东 吴荣辉
贺 钦 蔡晋安 谭先锋 史麟华 樊 琦
李玉亭 薛宏交 赵 萍（专职）

编委会成员（按姓氏笔画为序）：

卜淑燕	方韶东	牛之後	冯树文	史麟华
龙安明	刘 杰	刘晓年	刘维克	朱晓力
邢成起	邢灿飞	阴朝民	吴荣辉	张淑萍
张福平	李 刚	李 克	李 波	李 强
李玉亭	杨林章	邱淑燕	邹洪生	周清良
修济刚	姚大全	段晖吉	胡 可	贺 钦
赵 萍	赵宇彤	赵国敏	徐铁鞠	崔 杰
崔秋文	傅建武	盈晓东	彭克银	程光华
谭先锋	樊 琦	薛宏交		

编 辑 说 明

《中国地震科研课题总览》由中国地震局发展与财务司和中国地震局地震台网中心联合编辑出版，它是全面反映我国地震科研项目的发展动向及进展情况的窗口。本卷包括 2004 年度国家发展与改革委员会、中国科技部、中国地震局以及地震科学联合基金下达和资助的共 136 个课题，按以下 8 个方面分类：

- (1) 地震观测方法与技术；
- (2) 地震孕育环境和条件；
- (3) 地震预报研究；
- (4) 地震实验研究；
- (5) 地震理论研究；
- (6) 地震灾害预测与评估；
- (7) 工程地震与地震工程；
- (8) 地震数据与资料服务。

目前，随着防震减灾工作领域的拓宽，借此第三届编委会换届之际，也为了适应新形势下防震减灾事业的需要，从本卷开始（2005 年），《中国地震科研课题总览》在地震出版社正式出版，今后将依次每年编辑出版一册。在本书的编辑过程中，得到各省、自治区、直辖市地震局以及中国地震局各直属单位的有关领导和科研人员的大力支持，在此表示衷心感谢。

《中国地震科研课题总览》编辑部

2005 年 12 月

目 录

一、 地震观测方法与技术

中法地球透镜(GEOSCOPE)合作项目	张伯明 (3)
国际核查地震数据中心的运行	张伯明 (5)
首都圈流动重力和台站重力监测与研究	郑金涵 (7)
基于小波变换的地震数据压缩	王喜珍 (9)
遥感观测技术在地震短期预测中的应用研究	张元生 (11)
地形变资料的小波分析及地震预测方法研究	张 燕 (13)
地震救助自定位数字成像系统	付辉清 (15)
SLR 基线坐标	郭唐永 (17)
SLR 数据处理	郭唐永 (18)
强震观测台网的建设与管理	周正华 (19)
基于强震台网的地震预警技术研究	李山有 (21)
台站短水准数据处理分析软件	周必才 (22)
福建省水平摆与垂直摆观测资料对比分析	张远城 (24)
广东省地震工程实验中心建设	黄剑涛 (25)
高稳定装置误差核旋分量线圈的研制	冯志生 (26)
四川省数字化前兆台网建设	安明智 (28)
四川 RS 卫星遥感系统	刘 放 (29)
四川省地震应急指挥技术系统	李谊瑞 (31)
地震救助生命搜索与定位技术实用化研究	陈维峰 (32)
利用数字地震资料的频谱分析结果进行前震特征研究	黄金刚 (34)
山西侯马数字化形变台网震能力及机理分析	王秀文 (36)
“九五”前兆仪器数传设备的改造方案	阎计明 (38)
雁门关信道误码原因分析与改善试验	薛志文 (39)
山西重力观测数据库及其管理系统	彭 浩 (40)
云南数字强震动台网建设	崔建文 (41)

二、 地震孕育环境和条件

大地震空间分布机理的研究	安镇文 (45)
区域地震活动与强震应力触发研究	田勤俭 (47)
首都圈地区的活动构造、地质灾害和成灾机理研究	陈 颛 (49)
地震三维精定位和丽江、宁蒗地震破裂成核过程的研究	陈棋福 (51)

地壳形变与地下水位短临异常特征及相互关系的研究	陆明勇	(53)
甘东南强震重点监视区流体前兆的形成机理和主要特征	高安泰	(55)
阿尼玛卿缝合带东段及其两侧深部结构构造的主动源地震探测研究	张先康	(57)
城市活断层反射地震勘探的层析静校正方法研究	杨卓欣	(59)
Q 值成像与各向异性小波变换的震源分布图像方法和应用	赖晓玲	(60)
镜泊湖火山地震监测研究	段永红	(62)
活动断裂的人工源高分辨人工源地震层析成像方法研究	段永红	(64)
长江三峡水库诱发地震监测研究	姚运生	(66)
基于全球卫星定位系统观测资料的短期地震预报新方法实用化研究	乔学军	(68)
关于越南境内地壳运动研究的基本方法	吴 云	(71)
长白山天池火山地震监测	张京辉	(73)
长白山天池火山的地热和地下流体监测	张恒荣	(74)
长白山天池火山形变监测与研究	李 克	(76)
江苏及邻区和南黄海地壳上地幔结构研究	李清河	(77)
华东地区地壳上地幔三维速度结构和大震深部环境研究	黄 耘	(79)
川西重点监视防御区康定—西昌段的断裂现今活动习性与强震危险背景研究	易桂喜	(80)
井水位前驱波现象与震源成核过程关系的研究	张淑亮	(82)
山西夏县热水井逸出 He 异常与地下水开采关系研究	范雪芳	(84)
山西省及邻区洞体形变异常指标的研究	高振强	(86)
逆断裂地震地表变形与工程破坏作用评价	沈 军	(88)
乌鲁木齐现代构造运动和地形变 GPS 监测研究	王晓强	(90)
新疆天山博—阿断裂中晚第四纪运动特征研究	沈 军	(92)
喀什河断裂晚第四纪活动特征研究	尹光华	(94)
腾冲火山活动监测及应急预警研究	姜朝松	(96)

三、地震预报研究

数字地震资料在强地震短期预测中的应用	张天中	(101)
活断层潜在破裂段地震的中期预测	田勤俭	(103)
地球变化磁场观测资料在强地震短期预报中的应用	丁鉴海	(105)
北京及邻区中等地震的短临前兆异常与预测研究	兰从欣	(107)
福建数字地震台网地震波资料在地震分析预报中的应用研究	林思诚	(109)
珠江三角洲地震趋势中短期预测研究	魏柏林	(111)
华北地区强地震短期预测综合方法研究	孙佩卿	(113)
电磁辐射的异常变化特征在地震短临预报中的应用	周本成	(115)
高精度地应力仪“映震”效果及其地震预报三要素的研究	王春和	(116)
地震短期综合预报方法研究	王海涛	(118)
西北地区强地震短期前兆特征和预测方法研究	王海涛	(120)
多震区地震活动、前兆场综合特征与强震中期预测研究	曲延军	(122)

天山地区强震短期前兆特征及预报方法研究	高国英 (124)
西南地区数字地震资料在短期预测中的应用方法研究	秦嘉政 (126)

四、地震实验研究

地震断层的聚合与超 S 波破裂的观测、实验与理论	许力生 (131)
长白山天池火山公元 1199 年大喷发岩浆脱气率研究	李 窓 (133)
下地壳物质组成、物理环境和流变学研究	陈孝德 (135)
地下水巾微量锶的测定及在地震前兆观测中的应用研究	陶月潮 (137)
汤池 1#井动态异常与地震活动及观测环境关系研究	陶月潮 (138)
地电观测的探测深度、布极方向与“映震”效能研究	赵葆钧 (139)
重要地震后对震源区介质物性、应力状态、破裂过程等震源性状的近震源观测 研究	朱令人 (141)

五、地震理论研究

青海德令哈地震的震源过程研究	许力生 (145)
青藏高原东缘壳幔速度结构和地幔变形场的地震学研究	王椿镛 (146)
用地震面波研究中国大陆及邻区上地壳剪切波速度结构	苏 伟 (148)
长白山天池火山地区微震研究	明跃红 (150)
青藏高原东缘岩石圈密度的三维统计模拟成像	楼 海 (152)
地磁场短周期变化的时空分布规律研究	李 瑛 (154)
地壳介质剪切波分裂的时间变化特征	高 原 (156)
云南地区上地幔各向异性特征研究	高 原 (158)
基于多值前兆的强震时一空概率增益模型的建立与研究	王晓青 (160)
伽师地区现代应力场的三维数值模拟	陶 纬 (162)
利用地脉动观测推断浅层 S 波速度结构的反演策略研究	师黎静 (164)
随机地震荷载下饱和砂土孔压增长模型研究	孙 锐 (166)
非均等固结下土的动剪切模量和阻尼比及对地震动的影响	袁晓铭 (167)
不规则荷载下饱和砂土孔压增长模型研究	孙 锐 (169)
区域数字地震台网的震级测定问题	陈祥熊 (170)
长白山火山及邻区地壳模型研究	温 岩 (171)
用非线性理论预报江苏地区中强地震的方法和技术	李 强 (172)
通过对潮汐波频谱的分析研究孕震中短期特征	郑江蓉 (174)
固体潮相位与地震关系的研究	王秀文 (176)
临汾、太原、大同盆地小地震活动 A (b) -N 法时间序列特征对比研究	张瑞芳 (177)
地球自转速率变化预测研究及其在中期地震预测中的应用	邵辉成 (179)
井水位前驱波现象与震源成核过程关系的研究	张淑亮 (181)
后续强震预测及触发机理研究	蒋 淳 (183)
巴楚-伽师强震序列的深入研究	王海涛 (185)
Lg 尾波 Q 值衰减特征研究	徐 彦 (187)

震后趋势快速判断方法研究.....钟羽云 (188)

六、地震灾害预测与评估

地震灾害评估中的不确定性研究.....	王晓青 (193)
广东省地震灾害紧急救援队组建.....	续新民 (195)
中国南海地震海啸监测预警系统建设方案.....	王正尚 (197)
图们江流域火山泥石流调查与研究报告.....	金东淳 (199)
长白山火山预警研究.....	郑雅琴 (201)
厚软场地地震动效应及对大跨径桥梁安全性的影响研究.....	杨伟林 (202)
山西省地震灾害总结及其地理信息系统建设.....	樊 琦 (204)

七、工程地震与地震工程

用数字宽频带记录研究长周期地震动衰减关系.....	俞言祥 (209)
基于震源、传播路径及场地条件的结构地震破坏估计方法研究.....	温增平 (211)
输液埋地管道跨活断层的抗震分析.....	刘爱文 (213)
永久性地震地面变形对埋地管线的影响分析.....	李小军 (214)
引起结构破坏的地震动脉冲特性研究.....	戴君武 (216)
动力基础设计的一般集中参数模型.....	侯兴民 (218)
立交桥结构地震可靠性分析研究.....	柳春光 (220)
混合抗震控制及其智能控制技术研究.....	孟庆利 (222)
结构 Pushover 分析等效荷载分布和位移反应研究.....	孙景江 (223)
混凝土空心砌块结构性态抗震研究.....	熊立红 (224)
高层建筑钢—混凝土混合结构的抗震性能研究.....	张令心 (225)
挡土墙地震反应分析及工程应用.....	陈学良 (227)
房屋地震破坏特征演示软件研究.....	丰彪 (229)
液化引起建筑物不均匀震陷机理及分析方法研究.....	孟上九 (230)
房屋地震破坏特征演示软件研究.....	丰彪 (231)
广东省地震安全农居示范工程建设.....	康建国 (233)
广东和香港地震风险概论.....	丁原章 (235)
大同市农村民居抗震研究.....	赵 劲 (236)
大同市地裂缝管理与防治对策.....	任建国 (237)

八、地震数据与资料服务

大震应急反应和快速信息服务.....	崔秋文 (241)
国际地震应急管理体系研究.....	崔秋文 (243)
地震科技档案资料管理系统及网上查询系统.....	付桂华 (244)
地震科技查新系统建设.....	董 军 (246)
中国固体潮观测数据库建设及共享服务.....	唐九安 (248)
强震数据处理与出版.....	李山有 (250)

强震观测数据库	于海英 (252)
设备隔震设计	黄永林 (254)
四川省地震信息服务系统	李谊瑞 (256)

CONTENTS

1. SEISMOLOGICAL OBSERVATION METHOD AND TECHNOLOGY

The Sino-French GEOSCOPE Cooperative Project	Zhang Boming (3)
Operation of the China Seismic Data Centre for CTBT Monitoring	Zhang Boming (5)
Observation and Research on Gravity Variation Related to Earthquake Occurrence in the Capital Circle, China.....	Zheng Jinhan (7)
Compression of Seismic Data Based on Wavelet Transform.....	Wang Xizhen (9)
Application Study of the Remote Sensing Technique for Short-Term Earthquake Prediction	Zhang Yuansheng (11)
Research on Crustal Deformation Data Analyzing Based on Wavelet for Earthquake Prediction.....	Zhang Yan (13)
System of Positioning Digital Imaging for Post-Earthquake Rescue.....	Fu Huiqing (15)
SLR Baseline Coordinates.....	Guo Tangyong (17)
SLR Data Processing.....	Guo Tangyong (18)
The Construction and Management on the Strong Motion Observation	Zhou Zhenghua (19)
Study on the Technology of Earthquake Early Warning Based on Strong Motion Network	Li Shanyou (21)
Processing and Analyzing Software for Short-Range Leveling Data.....	Zhou Bicai (22)
The Contrast and Analysis on Observation Data of Horizontal Pendulum and Vertical Pendulum of the Stations in Fujian Province.....	Zhang Yuancheng (24)
Construction of the Seismic Engineering Experiment Center in Guangdong	Huang Jiantao (25)
Development of Component Coil of Proton Magnetometer	Feng Zhisheng (26)
Construction of Digital Earthquake Precursor Network in Sichuan Province	An Mingzhi (28)
Satellite Remote Sensing System of Sichuan	Liu Fang (29)
Earthquake Emergency Commands Technical in System Sichuan	Li Yirui (31)
Practical Research on Life Detection Search and Position Technology in Earthquake Rescue.....	Chen Weifeng (32)
Study on Characteristics of Foreshock Using Frequency Spectrum Analysis Result of Digital Seismic Data	Huang Jingang (34)
Monitoring Capacity and Mechanism Analysis of the Digital Deformation Network	

of Shanxi Province	Wang Xiuwen (36)
Alternation Project about Digital Transmission Equipment of Pre-monitoring Instrument During 9th-Five-Year Plan Period	Yan Jiming (38)
Cause Analysis and Improvement Test for Channel Mistake Code in the Yanmengguan Station	Xue Zhiwen (39)
Gravity Observation Database and Its Management System in Shanxi Province	Peng Hao (40)
Construction of Digital Strong Motion Observation Net in Yunnan	Cui Jianwen (41)
2. SE ISMOGENIC ENVIRONMENT AND CONDITION	
Study on the Distribution Mechanism in Space for Large Earthquakes.....	An Zhenwen (45)
Study of Triggering Seismicity by Coulomb Failure Stress Following Great Earthquake	Tian Qinjian (47)
Study on Active Tectonics and Geological Hazards in the Capital Circle	Chen Yong (49)
Approach to Precise Relocation of Earthquakes with 3-D Earth Structure and Implications for the Rupture Nucleation Process of Lijiang and Ninglang Events	Chen Qifu (51)
Study on the Short-Impending Anomalous Characteristics of Crustal Deformation and Groundwater Level and Their Mutual Relation.....	Lu Mingyong (53)
Forming Mechanism and Main Characteristics of Fluid Precursor in Strong Shock Emphasis Stakeout Section of Southeast Gansu Province.....	Gao Antai (55)
Pr obe and Study on Active Seismic Source of Deep Structure along East Segment of the Animaqing Suture Zone and Its Both Sides	Zhang Xiankang (57)
Tomo_Statics Approach to Reflection Prospecting of Urban Active Faults	Yang Zhuoxin (59)
Methods of <i>Q</i> Tomography and Image of Hypocentre Distribution for Anisotropic Wavelet Transform and Its Application.....	Lai Xiaoling (60)
Earthquake Monitoring of Jingbohu Volcano	Duan Yonghong (62)
Active Fault Tomography Using High-Resolution Active Source Method	Duan Yonghong (64)
Research on the Monitoring of Induced Earthquake in Three Gorges Reservoir	Yao Yunsheng (66)
Study on New Methods of Short-term Earthquake Prediction Using GPS Measurement Data	Qiao Xuejun (68)
The Sino-Vietnam Cooperation Study on Crustal Deformation and Dynamics in Vietnam.....	Wu Yun (71)
Earthquake Monitoring in Changbaishan Tianchi Volcano (CTV)	Zhang Jinghui (73)

Terrestrial Heat and Underground Liquid Observation for Changbaishan Tianchi Volcano (CTV)	Zhang Hengrong (74)
Deformation Monitoring System in Changbaishan Tianchi Volcano (CTV)	Li Ke (76)
Research for Crustal and Upper Mantle Structure in Jiangsu Province and Its Adjacent Area and Southern Yellow Sea.....	Li Qinghe (77)
A Study of 3-D Crustal Velocity Structure and Earthquake Deep Environment in East China	Huang Yun (79)
Study on Current Faulting Behaviors and Strong Earthquake Potential Risk along the Kangding-Xichang Section of the Earthquake Monitoring and Preventing Key Region in Western Sichuan	Yi Guixi (80)
Research on the Relationship Between Precursor Phenomenon of Well Water Level and Seismic Source Nucleation Process	Zhang Shuliang (82)
Research on the Relationship Between He Abnormality and Groundwater Mining in the Xiaxian Hot Water Well, Shanxi Province	Fan Xuefang (84)
Study on Abnormal Index of Cavity Deformation of Shanxi Province and Its Adjacent Region	Gao Zhenqiang (86)
The Study on the Surface Deformation of the Thrust Fault and Estimation on Its Damages to the Constructions.....	Shen Jun (88)
GPS Monitoring of Recent Tectonic Movement and Crustal Deformation in Ürümqi	Wang Xiaoqiang (90)
The Study on Mid-Late Quaternary Kinematics of Bolokenu-Aqikekuduk Fault in Tianshan, Xinjiang	Shen Jun (92)
Research on Late Quaternary Activity of Kashi River Fault	Yin Guanghua (94)
Monitoring of Volcanic Activity and Study on Early Warring in the Tengchong Area	Jiang Chaosong (96)

3. EARTHQUAKE PREDICTION RESEARCH

Application of Digital Seismic Data to Strong Earthquake Prediction.....	Zhang Tianzhong (101)
Medium-Term Earthquake Prediction for Potential Rupture Segments along Active Fault Zone.....	Tian Qinjian (103)
Study on the Short-Term Earthquake Prediction Method of Varying Geomagnetic Field.....	Ding Jianhai (105)
Research on Short-Imminent Precursor Abnormity and Prediction for the Medium Earthquakes in Beijing and Its Adjacent Region.....	Lan Congxin (107)
Study of the Application in Earthquake Analysis and Prediction Using Seismic Wave Data from Digital Seismic Stations Network of Fujian.....	Lin Sicheng (109)
Study on Medium and Short-Term Seismic Tendency in the Pearl River Delta Area	Wei Bailing (111)

Study on the Synthetical Methods of Short-Term Prediction for Strong Earthquake in North China	Sun Peiqing (113)
Applications of Electromagnetic Radiation Abnormally in Impending Earthquakes Prediction	Zhou Bencheng (115)
Study on Reflecting Earthquake Effect of High Precision Terrestrial Stress Detector	Wang Chunhe (116)
Study on Method of Short-Term Comprehensive Earthquake Prediction	Wang Haitao (118)
Study on Short-Term Precursor Characteristics and Earthquake Prediction Methods in Northwestern Region	Wang Haitao (120)
Study on the Comprehensive Characteristics of Seismicity and Precursory Field and Medium-Term Prediction of Strong Earthquake in the Multi-Earthquake Region.....	Qu Yanjun (122)
Study on Short-term Precursory Characteristics and Forecast Methods of Strong Earthquake in the Tianshan Region	Gao Guoying (124)
Study on the Imminent Earthquake Prediction by Using Digital Seismic Data in Southwest China.....	Qin Jiazheng (126)

4. SEISMIC EXPERIMENTAL STUDY

Fusion of the Earthquake Faulting and Observation, Experiment and Theory of Super- Shear Rupture	Xu Lisheng (131)
Study on Magma Degassing of the Great Eruption of Tianshan Volcano in 1199	Li Ni (133)
Study on the Compositions, Physical Conditions and Rheology of the Lower Crust in North China.....	Chen Xiaode (135)
The Determination of Trace Strontium in Underground Water and the Application in Seismic Precursor Observation	Tao Yuechao (137)
Study on the Relationship between Trend Abnormality, Seismicity and Observation Environment in the No.1 Well of Tangchi	Tao Yuechao (138)
Study on Exploration Depth, Pole Direction and Reflecting Earthquake Ability of Geoelectrical Observation	Zhao Baojun (139)
Observational Study on Near Earthquake Source of Medium Feature, Stress State and Rupture Process Source, etc. in Focus Region Source after Major Earthquake	Zhu Lingren (141)

5. EARTHQUAKE THEORETICAL STUDY

Source Process of the $M_{S}6.8$ Earthquake of Bachu-Jiashi, Xinjiang.....	Xu Lisheng (145)
----------------------------------------------------------------------------	------------------

Seismological Study on Crustal and Upper Mantle Velocity Structure and Mantle Deformation Field in the Eastern Margin of the Qingzang Gaoyuan	Wang Chunyong (146)
Upper Crustal Shear Wave Velocity Structure of the Chinese Mainland and Its Adjacent Regions by Surface Wave Inversion	Su Wei (148)
Micro-Earthquakes Research of Changbaishan Tianchi Volcano	Ming Yuehong (150)
3-D Density Image of the Lithosphere in the Eastern Margin of Qingzang Gaoyuan-Tibet with Statistical Simulating Method	Lou Hai (152)
Research on the Character of Short-Term Geomagnetic Oscillations	Li Qi (154)
Temporal Variation Pattern of Shear-Wave Splitting in the Crust	Gao Yuan (156)
Study on Anisotropic Pattern of Upper Mantle in the Yunnan Area	Gao Yuan (158)
Study on Spatial-Temporal Probability Gain Model Based on "Multi-State" Precursory Mode	Wang Xiaoqing (160)
The 3-D Simulation of the Nowadays Stress Field in Jiashi	Tao Wei (162)
Study on the Inversion Strategy for Exploring the Shallow V_s Structure by Microtremors Observation	Shi Lijing (164)
Study on Model of Pore Water Pressure Under Random Seismic Loading	Sun Rui (166)
Dynamic Shear Modulus and Damping Ratio Under Anisotropic Consolidation and Its Effect on Ground Motion	Yuan Xiaoming (167)
Study on Model of Pore Water Pressure Under Irregular Seismic Loading	Sun Rui (169)
Seismic Magnitude Determination of Local Digital Seismic Network	Chen Xiangxiong (170)
Research on Crustal Structure in Changbaishan Volcano and Its Adjacent regions	Wen Yan (171)
The Application of Nonlinear Theory on the Prediction of Moderately Strong Earthquake in the Jiangsu Region	Li Qiang (172)
Study on the Characteristic of Medium-and Short-Term Earthquake Preparation by Using Earth Tide Wave Spectrum	Zheng Jiangrong (174)
Research of Relations of the Tide Phase and Earthquakes	Wang Xiuwen (176)
Analysis of A (b) -N Method for the Small Earthquake Time Sequence in the Linfen, Taiyuan and Datong Basin	Zhang Ruifang (177)
Research of the Earth Rotation Rate Variation and Application in Medium-Term Earthquake Prediction	Shao Huicheng (179)
Research on the Relationship Between Precursor Phenomenon of Well Water Level and Seismic Source Nucleation Process	Zhang Shuliang (181)
Research on the Subsequent Strong Earthquakes of Prediction and Its Triggered Mechanism	Jiang Chun (183)
Study on Bachu-Jiashi Strong Earthquake Sequence	Wang Haitao (185)
Study on Lg Coda Q Attenuation Characteristics	Xu Yan (187)
Study on Fast Trend Estimation Methods After Earthquake	Zhong Yuyun (188)

6. EARTHQUAKE DISASTER PREDICTION AND ASSESSMENT

- Study on the Uncertainty of Earthquake Disasters Assessment Wang Xiaoqing (193)
Organizing the Search and Rescue Team of Guangdong Province Xu Xinmin (195)
The Construction Project of the Earthquake Tsunami Monitoring and Warning
System in South China Sea Wang Zhengshang (197)
Research on Volcanic Mudflow in the Tumenjiang Drainage Area Jin Dongchun (199)
Research on the Warning System of Tianchi Volcano in the Changbaishan
Mountains Zheng Yaqing (201)
Study on Seismic Effects of a Large Span Bridge Site with Thick & Soft Soil Layers
and Influences to the Bridge Safety Yang Weilin (202)
Earthquake Disaster Summary and GIS Developments in Shanxi Province Fan Qi (204)

7. ENGINEERING SEISMOICS AND EARTHQUAKE ENGINEERING

- Study on Attenuation Relations of Long-period Ground Motions by Using Digital
Broadband Records Yu Yanxiang (209)
Development of Earthquake Damage Methodology Based on Seismic Source,
Travel Path and Site Wen Zengping (211)
Seismic Analysis of Buried Fluid Pipelines under Fault Movement Liu Aiwen (213)
Response of Buried Pipelines under Performance Ground Displacement Li Xiaojun (214)
Study on Pulse Characteristics of Ground Motions to Structural Damage Dai Junwu (216)
General Lumped-Parameter Models of Dynamic Foundation Design Hou Xingmin (218)
Earthquake Reliability Analysis of Overpass Structure Liu Chunguang (220)
Study on Hybrid Anti-Seismic Control and Intelligent Control Technique Meng Qingli (222)
Study on Load Patterns and Displacement Response of the Buildings in Pushover
Analysis Sun Jingjiang (223)
Study on Aseismic Performance of Concrete Hollow Block Structure Xiong Lihong (224)
Study on Seismic Behavior of Steel-Concrete Hybrid Tall Buildings Zhang Lingxin (225)
Seismic Response Analysis of Retaining Wall and Its Engineering Application
..... Chen Xueliang (227)
Illustration System on Earthquake Damage Features of Several Types of Buildings
..... Feng Biao (229)
Mechanism and Analytical Method for Liquefaction-Induced Differential
Settlements of Buildings Meng Shangjiu (230)
Illustration System on Earthquake Damage Features of Several Types of Buildings
..... Feng Biao (231)
Farmhouse Demonstrating Project of Seismic Safety in Guangdong Province
..... Kang Jianguo (233)
Seismic Risk Assessment in Guangdong and Hong Kong Ding Yuanzhang (235)

Research on Earthquake Disasters for Farmhouse in Rural Area and Countermeasures for Earthquake Prevention of Datong City, Shanxi.....	Zhao Jin (236)
Countermeasures for Preventing and Curing Ground Fissure in Datong City, Shanxi	Ren Jianguo (237)

8. SEISMIC DATA AND SERVICE

Quick Report and Information Service of Large Earthquake at Home and Abroad	Cui Qiuwen (241)
Study on the International Seismic Emergency Management System.....	Cui Qiuwen (243)
The Management and Sharing System for Scientific Archive and Data.....	Fu Guihua (244)
Retrieval and Consultation System of Seismic Science and Technology.....	Dong Jun (246)
Construction and sharing Database of Solid Tide Observation	Tang Jiuan (248)
Strong Motion Data Processing and Publishing.....	Li Shanyou (250)
Strong Motion Observation Data Base	Yu Haiying (252)
Seismic Isolation for Equipment.....	Huang Yonglin (254)
Information Service System of the Earthquake in Sichuan.....	Li Yirui (256)