

西北地震学报

第十一卷

总 目 录

第一期

- 孕震过程中地震活动时空不均匀性的研究……虞雪君 姚立均 盛国英 侯晓钰 (1)
- 甘青区域地震波走时表……张 诚 高世全 邵世勤 (11)
- 阿尔金断裂微量气体分布与断层现今活动性讨论……
……何跟巧 张必教 廖元模 常秋君 万夫领 郭玉英 (16)
- 对地震活动的“茂木周期”再研究的初步结果……洪时中 (21)
- 临震电磁辐射信号的准—静电磁场场强理论计算……张德齐 王盛飞 张念孝 (28)
- 江苏射阳5.1级地震的中期预报及震前短临异常……胡连英 (33)
- 东北深源和浅源地震同步活动的地球动力机制……赵文峰 (41)
- 中国中部的地壳及上地幔构造……周海南 冯 锐 张伯明 (48)
- 水平摆倾斜仪的精确定向……罗荣祥 (53)
- 岩石渗透特性的实验研究……吴景浓 龚钢廷 颜玉定 谢原定 (59)
- 短文**
- 临界慢化与地震预报……郭增建 秦保燕 (68)
- 用虫口方程估计b值范围……张晓东 (70)
- 兰州台观测到的 π 类震相初探……许健生 (73)
- 土壤中微量气体汞含量与隐伏活动断层的关系……
……刘耀伟 阎贤臣 张 增 王长岭 姜大庸 沈克金 (79)
- 红寺湖水氡异常的判别指标与地震……朱子政 (82)
- 一次有热异常前兆的地面沉陷……陈红剑 (83)
- 对我国7级以上地震发生规律的初步讨论……陈福源 (84)
- 关于测定震级的两个问题……修济刚 吴开统 (85)
- * * *
- 双态泊桑模型及其在地震危险性分析中的应用……申爱国 陈丙午 (72)

第二期

- 纪念兰州地球物理研究所成立三十周年……高由禧 (1)
- 继往开来, 奋勇前进——纪念中国科学院兰州地球物理研究所成立三十周年……
……本刊编辑部 (3)
- 南北地震带北段上地幔速度结构成像(I)——方法与原理……姚政生 王周元 (5)

- 西北地区中强震前b值与小震调制比的相关变化……………刘江峰(12)
- 我国东南地区 π_s 波的频散特征……………
 ……………谭爱娜 杨导声 刘畅 王晓东 付建武 余亚华(19)
- 大震系的层次、频度及时间分布特征……………张立人(30)
- 新疆乌什台几次中强震前地倾斜趋势异常分析……………韩月鹏 吴秀莲(38)
- 当代钻孔地应力测量的主要问题……………安 欧(43)
- 重力滑动过程中蠕滑和松弛因素的作用及其与地震的关系……………阎海歌(52)
- 西北地区地震综合预报探讨……………西北地震综合预报清理攻关组(61)
- 构造力学性质与地震强度的关系——以鄂尔多斯地块及其周边地区为例……………
 ……………刘仲温 王贵华 张文国 孙小平 苏春平(70)
- 地震预报确定率、报准率和成功率的计算……………肖志江 骆鸣津 唐九安(79)
- 短文**
- 用电测深法在水压致裂实验中确定岩石破裂方向的实验研究……………
 ……………高福旺 贺国玉 韩凤银 可志和(87)
- 1976年松潘7.2级地震前静宁台地应力前兆特征……………李西侯(91)
- 西安市场地土的地震波速……………李藩文(93)
- 简讯**
- 中国西部防灾研究联络会成立……………周可兴(92)
- * * * *
- 关于减震问题的讨论(英文稿)……………郭安宁(96)

第三期

- 学渊教广,赤心为民——纪念付承义先生八十寿辰……………西北地震学报编委会(1)
- 从震源物理的角度讨论影响地壳应力的某些磁学问题……………孙光宇(3)
- 信息量与分维在地震预报中的应用……………张晓东(16)
- 平稳序列穿过理论在预测强震趋势中的应用……………徐云波(27)
- 计算水平层状介质电阻率权系数的一种方法……………姚文斌 傅良魁(33)
- 近震相对定位法和南黄海地震序列……………周惠兰 李东升(41)
- 井水位的固体潮效应和气压效应与含水层参数间的定量关系……………
 ……………张昭栋 郑金涵 冯初刚(47)
- 河西构造系及其与青藏高原东北部地震活动的关系……………才树华(53)
- 1987年8月10日灵武5.5级地震前后小震活动图象及震区应力场特征……………
 ……………赵知军 王玉霞 刘秀景(63)
- 龙滩水库区诱发地震危险性估计……………陈益明(69)
- 短文**
- 1988年11月22日甘肃肃南5.7级地震……………高元勤 杨玉衡(78)
- 水氡与井水位短临前兆信息的一种提取方法……………万存绪 孙世清(82)
- 甘青宁地区近震震级测定的改进及其起算函数的修正……………阎志德 任铁生 张亚玲(89)

罗城地区的地质构造与注水采盐诱发地震……………徐泽奎(96)

新书信息

《灾害物理学》征订通告……………(77)

* * * *

地震、地裂和气象灾害(英文稿)……………郭增建 秦保燕(101)

中国地震科技文献数据库(英文稿)……………高树心(108)

第四期

重正化群方法在地震预报中的应用……………杨 毅(1)

前兆起伏加剧与短临地震预报……………秦保燕 白建华(14)

中国西北黄土地区地震动衰减规律研究……………阮爱国(25)

地震深部电性变化前兆特征及其机理的初步探讨……………林长佑 武玉霞 刘晓玲(37)

青藏高原北部地区强震活动特征与地震大形势……………
……………石特临 郭大庆 郭新铎 刘维贺 杨玉衡 肖丽珠(46)

岩石错动面上阶梯形凸起部位破裂过程与失稳型式研究……………
……………李建国 石桂梅 王绳祖(55)

利用模糊关系方程预报大华北地区的最大震级范围……………陈大业 王秀文(64)

唐山、松潘地震前视电阻率短临异常图象重现性……………桂燮泰 关华平 戴经安(71)

广西河池地区的地震活动及发震机制的岩石实验解释……………梁 劳(76)

四川南部及邻区地壳活动性研究……………赵从俊 张 健 沈 浩 田晓燕(83)

短文

菏泽5.9级地震前深埋电极的地电异常特征……………孙承德 王帮本 刘永兰(91)

海潮负荷引起的弹性潮汐形变解……………孙和平(95)

丹江口水库渗透环境及诱震效应的初步分析……………徐永健 李安然 韩晓光(101)

* * *

日本内陆地震活动的迁移与扩散(英文稿)……………吉田明夫 细野耕司(105)

NORTHWESTERN SEISMOLOGICAL JOURNAL

Vol.11, 1989

CONTENT

No.1

- The Study on Temporal and Spatial Heterogeneity of the Seismicity
in Preparing Process of Strong Earthquakes.....
.....Yu Xuejun et al. (10)
- The Travel-Time Table of Regional Seismic Waves in Gansu, Qing-
hai Areas.....Zhang Cheng et al. (15)
- Discussion of the Microgas Distributions and the Recent Activity
of Aejin Fault.....He Genqiao et al. (20)
- Preliminary Results of Reresearch for "Mogi Period" of Seismic
Activity.....Hong Shizhong (27)
- The Theoretic Calculation of Intensity of Quasistatic Electromag-
netic Field about Electromagnetic Radiation Signal of Impen-
ding Earthquake.....Zhang Deqi et al. (32)
- The Moderate Term Prediction of the Sheyang Earthquake (M=5.1)
in Jiangsu Province and Urgent and Short Term Anomalies
before It.....Hu Lianying (40)
- Mechanism of Earth Dynamics of Synchronous Activities for Deep
Focus and Shallow Focus Earthquakes in Northeast China
.....Zhao Wenfeng (47)
- The Crustal and Upper Mantle Structure in Central China.....
.....Zhou Hainan et al. (52)
- Accuracy Orientation of Horizontal Pendulum Tiltmeter.....
.....Luo Rongxiang (58)
- Experimental Research on Rock Permeable Behaviors.....
.....Wu Jingnong et al. (67)
- Research Reports in Brief**
- "Critical Slow Down" and Earthquake Prediction.....
.....Guo Zengjian, Qin Baoyan (69)
- Application Logistic Formula Estimating Size of Seismological b
Value.....Zhang Xiaodong (72)
- A Preliminary Study on the π Phases Observed at Lanzhou Seismic

- Station.....*Xu Jiansheng* (78)
- The Relation between Active Lie Concealed Fault and the Mercury
Content of Trace Gases in Overburden.....*Liu Yaowei et al.* (81)
- Radon Anomaly of Hongsihu Spring, Gansu Province and Earth-
quakes.....*Zhu Zizheng* (86)
- The Heat Anomaly before a Surface Sinking.....*Chen Hongjian* (83)
- Preliminary Discussion on Earthquakes ($M \geq 7$) Laws in China.....
.....*Chen Fuyuan* (84)
- Two Problems with Regard to Magnitude Determination.....
.....*Xiu Jigang, Wu Kaitong* (86)
- * * *
- A Two-State Poisson Model and its Application in Seismic Hazard
Analysis.....*Shen Aiguo, Chen Bingwu* (87)

No.2

- Imaging of Velocity Structure of the Upper Mantle for the Nor-
thern Portion of North—South Seismic Belt(I)—Theory and
Method.....*Yao Zhengsheng and Wang Zhouyuan* (11)
- The Correlative Change of the b Value with the Modulation Shock
Ratio before Moderate Earthquakes in the Northwest of
China.....*Liu Jiangfeng* (18)
- Dispersion Characteristic of the π_s Wave in Southeastern China.....
.....*Tan Aina et al.* (29)
- The Level and Frequency-Time Distribution Characteristics of
Large Earthquake Systems.....*Zhang Liren* (37)
- The Analysis on Tilt Tendency Anomaly at Wushi Station before
Several Moderate Strong Earthquakes.....
.....*Han Yuepeng and Wu Xiulian* (42)
- Principal Questions of Geostress Measurement in Borehole at the
Present Time.....*An Ou* (51)
- Function of Relaxation and Creep Slippage in the Course of Gravi-
tational Sliding as well as Relations between Them and
Earthquakes.....*Yan Haige* (60)
- Research on Comprehensive Earthquake Prediction in the North-
western China.....*Li Haihua et al.* (69)
- Relation between the Features of Tectonic Mechanics and the
Earthquake Strength—Cite an Example in Ordos Block and
its Surrounding Region.....*Liu Zhongwen et al.* (78)

- Calculation of the Rates of Determination, Precision and Success
for the Earthquake Prediction.....*Xiao Zhijiong et al.* (86)
- Research Reports in Brief**
- Research on Determining Rock Fracture Directions by Electrical
Sounding Method in the Hydrofracturing Experiment
.....*Gao Fuwang et al.* (90)
- Precursory Features of Earth's Stress at Jingning Station, Gansu
Province before the Songpan Earthquake (M=7.2), 1976.....
.....*Li Xihou* (92)
- The Seismic Wave Velocity of Site Soil in Xi'an.....*Li Fanwen* (95)
- * * * *
- Discussion on Problem of Earthquake Reduction.....*Guo Anning* (96)

No.3

- Discussion on Some Magnetism Questions Influencing Crustal Stress
from the Source Physical Point of View.....*Sun Guangyu* (15)
- The Application of Information Value and Fraction Dimension in
Seismic Prediction.....*Zhang Xiaodong* (26)
- An Application of the Crossing Theory of Stationary Sequence
in Prediction of Chinese Strong Earthquake Trend.....
.....*Xu Yunbo* (32)
- A New Method for the Computation of Resistivity Weighting
Coefficients of Horizontal Strata.....
.....*Yao Wenbin, Fu Liangkui* (40)
- A Method of Relatively Localizing Near Earthquakes and Time-
Space Distribution of Earthquake Sequence of South Yellow
Sea.....*Zhou Huilan, Li Dongsheng* (46)
- Quantitative Relationship between the Earth Tide Effect of Well
Water Level, the Barometric Pressure Effect and the Para-
meters of Aquifers.....*Zhang Zhaodong et al.* (52)
- The Hexi Tectonic System and Study on Relationship between It
and Seismicity in Northeast Qinghai-Xizang Plateau.....
.....*Cai Shuhua* (62)
- The Active Pattern of Small Earthquakes and the Features of Focal
Region Stress Field before and after the Lingwu Earthquake
of Ms5.5 on Aug.10, 1987.....*Zhao Zhijun et al.* (68)
- The Estimation of Induced Earthquake Danger in the Longtan Re-
servoir Region.....*Chen Yiming* (77)

Research Reports in Brief

- The Sunan Earthquake ($M_s=5.7$), Gansu Province on Nov.22, 1988
Gao Yuanqin, Yang Yuheng (81)
- A Method Extracting Short Term and Imminent Anomalies of the
 Earthquake in Radon Content and the Water Level of the
 Well.....Wan Cunxu, Sun Shiqing (88)
- Development of Determining Nearby Earthquake Magnitude and
 Correction of a Gauge Function in Northwest China.....
Yan Zhide et al. (95)
- Geological Structure of the Luocheng Region and Induced Earth-
 quakes by Injecting Water to Mine Salt.....Xu Zekui (98)
- * * * *
- Earthquake, Ground Cracks and Meteorological Disasters.....
Guo Zengjian and Qin Baoyan (99)
- A Documental Database of Chinese Seismology Journal Paper
 (CSJP).....Gao Shuxin (102)

No.4

- Renormalization Group Method Applied to Earthquake Prediction
Yang Yi (13)
- Premonitory Fluctuation Aggravation and Impending Earthquake
 Prediction.....Qin Baoyan and Bai Jianhua (24)
- A Study on Attenuation Law of Seismic Ground Motion in the
 Loess Region of the Northwest China.....
Ruan Aiguo and San Chongshao (36)
- Preliminary Discussion on the precursory Characters and Mechanism
 of the Seismic Deep Electrical Change.....Lin Changyou et al. (45)
- The Study on the Situation and Stronger Earthquake Activity
 Features in the North area of the Qinghai-Tibet Plateau...
Shi Telin et al. (54)
- Study of Rupture Process and Instability Mode of Step-Like Aspe-
 rity on Sliding Plane in Rock.....Li Jianguo et al. (63)
- Application of Fuzzy-Relation Equation in Predicting Maximum
 Magnitude Range in North China.....
Chen Daye and Wang Xiuwen (70)
- The Short-Term and Immediate Anomalous Pattern Recurrences of
 the Apparent Resistivity before the Tangshan and Songpan
 Earthquake of 1976.....Gui Xietai et al. (75)

- A Interpretation on the Seismicity and Mechanism of Earthquake Occurred in Hechi Region, Guixi Using the Results of Rock Experiment..... *Liang Lao* (82)
- Study on the Crustal Activity in the Southern Sichuan and the Partial Areas of Yunnan and Guizhou Provinces.....
.....*Zhao Congjun et al.* (90)
- Research Reports in Brief**
- Thee Characteristics of Geoelectric Anomalies of Deep Buried Electrode before the Heze Earthquake with Magnitude of 5.9 in 1983.....*Sun Chengde* (94)
- Deformation of the Elastic Earth Tides Caused by Ocean Loading.....*Sun Heping* (100)
- Preliminary Analyses on the Permeation Environment and Induced Earthquake Effect of Danjiangkou Reservoir.....
.....*Xu Yongjian et al.* (104)
- * * * *
- Migration and Diffusion of Seismic Activity Observed in the Japanese Islands.....*Akio Yoshida and Kohji Hosono* (105)