

Table of Contents

Preface

Design and Development of Screw-Drive In-Pipe Robot J.M. Deng, H.P. Shen, C.Y. Xue, S.S. Liu and X.X. Wang	1
Automatic Placing and Removing Manipulator of the Workpiece on Stretcher Based on Electric-Pneumatic Control and PLC Control X.M. Sheng, L. Liu and Y.Q. Xu	5
Modeling and Mechanical Simulation of Cycloid Gear for Two Teeth Difference Cycloid Pin Reducer Y.S. Sun and T.M. Guan	9
A Test System of Flow Characteristic Based upon PLC for Control Valve G.F. Wang	14
Automatic Two Axes Sun-Tracking System Applied to Photovoltaic System for LED Street Light Q. Wang, J. Zhang, R. Hu and Y. Shao	17
Mode Selecting Control of Interior Permanent Magnet Synchronous Motor for Full Speed Range Operation Z.H. Wu, S.B. Wu, Y. Zhu and G.Y. Tian	21
Analysis and Simulation of a New Integrated Printing and Drying Machine J.T. Yuan and R.Y. Wei	28
A New Realization Method of Control System for Magnetic Bearing W.Y. Zhang, Y.J. Ge and J.Y. Yang	32
Control Lorenz System with Vibration Estimation with Averaging Method C. Zhou	36
Clearance Identification of Beam Structure Using Free Vibration Method X.D. Zhu, D.P. Jin and Z.H. Feng	40
Design of Battery Online Weighing System Based on PID-Fuzzy Control S.M. Yin, R.Q. Gao, Q. Zhou and P. Zhang	44
Monocular Vision Based Mobile Robot 3D Map Building M.H. Li and L.N. Sun	49
Micro Structures and Mechanical Characters of Hydrogenated Nanocrystalline Silicon Thin Films with Different Doped Proportions J.N. Ding, H.J. Fan, L.Q. Guo, Z. Fan, G.G. Cheng, S.G. Shen and H.S. Pu	53
Study on the Fuzzy Control of Coach Air Suspension System M. Li, Z.X. Li, J.W. Guo and X.F. Shen	57
Intelligent Fuzzy Controller Design and Simulation for Vehicle Speed Control J.H. Li, C.J. Chen, L.S. Guo and B.C. Yan	62
The Application of DSP in Eggshell Quality Online Detection System L. Sun, S.Q. Zhang, J.R. Cai, H. Lin and G.G. Fang	68
Co-Simulation of Wheel Loader Working Mechanism X.B. Ning, J.S. Shen and B. Meng	72
Type Synthesis and Workspace Analysis of a Novel Series Chinese Medical Massage Arm J. Xie and L.H. Kuang	78
Topology Optimum Design of Steel Bodywork Based on Genetic Algorithms Y.P. Yao, Y. Shi and J.Y. Fei	84
Development of Electronic Throttle Controller Based on LabVIEW Embedded Module X.J. Fang, J.Y. Du, Y.N. Yuan and G.P. Mao	89
Automatic Lighting Control System for Teaching Building Based on Wireless Sensor Network J. Yuan, Y.S. Wang, X.L. Zhang, L.J. Zhao and L.J. Huang	93
Conceive and Design of a Six Dimensional Signals Acquisition Device Y.F. Zhang, J.L. Gong and X.T. Wei	97
Research and Design of Novel Fractal Reader Antenna Z.J. Chen, Z.H. Zhong and S. Yan	101

Towing Operations on the Ultra-Deep Drilling Platform Sevan Driller J.G. Zong, C.J. Yang, C.S. Guan, Y. Tu and H. Xu	105
Research on MR Active Damping Control in Large-Diameter High-Speed Ball Mill Q.D. Chen, Y.N. Rui, X.M. Jiang and M. Shen	110
Study on Delta Parallel Mechanism Kinematics and Singularity Based on Inverse Solution Z.J. Chen, Q.J. Zhang and C.J. Hua	114
Analysis on Low Temperature Cold Starting Performance of Parallel Hybrid Electric Vehicle with Ultra-Capacitor J.H. Zhou, J.Y. Du, Y.N. Yuan and D.P. Zhang	119
Design of Multi-Wire Saw Winding System J.L. He, H.Y. Dong, X.Y. Ye and X.J. Wang	123
Method for Error Removal of Intelligent Electronic Counting Instruments Z.L. Li, J.G. Fan and Y. Li	127
Circuit Testing System of Vehicle Fuse Box Based on LabVIEW Y. Li and Z.H. Zhang	132
Workspace Analysis and Simulation of 3-PCR Parallel Mechanism X.Q. Hao, Z.G. Xu and K.Y. Cai	137
Towing Resistance Calculation of the Cylindrical Drilling Platform Y. Wang, C.J. Yang, C.S. Guan, Y. Tu and Z.G. Wang	142
Research on Automatic Control System of Suspended Access Platform Based on PIC16F877A X.C. Jiang, J. Sun, K. Zhang, H. Guo and Y.H. Wu	147
The Form Error Inspection of Turbine Blade with Coordinate Measuring Machine H. Guo, N. Su and D.J. Lin	151
The Pattern Management Mathematical Method of Computer Flat Knitting Machines Based on Embedded Processor Q. Han and P.W. Hou	156
Design and Application of Self-Tuning PI Controller X.H. Kong, B.J. Zhang, X.H. Mao, Y.F. Chen and C.Y. Song	160
Dynamic Response of Conductor Breakage for Oxytropis Transmission Tower-Line System R. Li and Q. Gao	165
Research on the Mechanism of Discharge of Transmission Line in Wind-Sand-Electric Field Q. Gao and Y.H. Shi	169
Numerical Simulation Research of the Effect of Injection Pressure on Diesel Engine with High-Pressured Common Rail System J.H. Li, B.C. Yan, L.S. Guo and C.J. Chen	173
Simulation and Optimization Design on the Amplitude Changing Mechanism of Boom System of Five-Arm Concrete Pump Vehicle Z.Y. Ling and P.F. Fu	178
Improved Development on Electrode Formula of D608 H.Q. Lu, G.Y. Fu, S.H. Shi and L. Li	183
A Method of Indoor Ambulatory Monitoring for Psycho-Physiological and Behavioral Activity Assessment Y. Ohtaki and G. Papastefanou	187
The Aquaculture Multi-Parameter Monitoring System Y.Y. Liu	192
Design of RFID Sensor-Tag for Wireless Monitoring of SMA-Reinforced Composite Structure Z.X. Qiu, J.Y. Wu, J. Yuan, Y.T. Chen and Y.J. Yang	196
Design of an Active Phase Conjugation Circuit for Retrodirective Array in UHF Band X.L. Sun, Q. Zhang and S. Yan	201
Research and Design of Control System for a 3-DOF Hybrid Robot J. Li, H.P. Shen, Y.X. Jiang, J.M. Deng, S.S. Liu, L. Ding and W. Wang	207
Realization and Reliability Analysis of Simulated SCIs in the Yacht Monitoring System X.D. Tan, Y.S. Zhao, X. Li, B.L. Li and S.X. Yao	211
Guard Robot Alarm System Design Based on GPRS L.N. Sun, M.H. Li and T. Chen	217

Research on Copper Foil Post-Processor Tension Control System W. Xing and Y. Jiang	221
Identification of Inertial Parameters of Heavy Truck Powertrains F.Y. Wang, D.H. Huang and S. Li	225
A New Model of Stochastic Resonance Used in Weak Signal Detection W.L. Zhao, Z.G. Wang and Z.Q. Huang	229
Research on Calculation System Used in Positioning Error Y.X. Wu	233
Design and Research of High Precision Internal Grinding Embedded CNC System O. Xie, H. Li, Z. Li and Z. Yin	238
A Novel Fuzzy-PID HFFT Controller to Advance on the Dynamic Characteristics X.X. Hu	242
Design and Analysis on a Kind of Oblique-Cone-Slid-Ring Assembly Seal Device with Self-Compensation to Seal Wear in Carbide Actor Y. Hu, W. Yan, H.B. Wen and C.S. Wen	247
Synthesis and Activity Determination of Angiotensin Converting Enzyme Inhibitors Derived from α_{s1}-Casein Protein M.Y. Huang, J.J. Lv, H.J. Ni, Y. Zhu and F.B. Zhang	253
Nonlinear Dynamics of a Parametrically Excited Laminated Beam: Narrow-Band Random Excitation X.J. Lan, Z.H. Feng, X.D. Zhu and H. Lin	257
Study on a Principle of Grinding Process of Face Gear X.Z. Li, Z.M.Q. Li and R.P. Zhu	262
Surface Roughness Prediction of Engineering Ceramics Electro-Spark Machining Based on Rough Set Neural Network X. Li, H. Wang and S.F. Chen	269
A Novel Current Detection Technology for a Permanent-Magnet Brushless DC Motor Z.S. Sheng, J. Liang, L. Jing and D.H. Zhang	274
Tooth Contact Analysis of Planetary Gear Trains with Equally Spaced Planets K. Xu, X.Z. Deng, J.J. Yang and G.Q. Dong	279
Design of Universal Straw Cutting Mill Y.F. Xu, P.P. Li and X.L. Zhang	283
A Numerical Approach for Harmonic Retrieval and its Application in Motor Vibration Fault Diagnosis L.X. Yang and H.W. Chai	288
Optimum Design of Rotary Non-Contact Electric Power Transmission Device for Ultrasonic Vibration Internal Grinding System Z. Yin, H. Li, Y. Li, O. Xie and Z. Li	293
Modeling and Simulation of Direct Torque Controlled PMSM for PHEV J.H. Zhou, Y.N. Yuan, D.P. Zhang and J.Y. Du	298
Experimental Study on Measurement Method of Flow Electrification S.X. Zhu, W.J. Hu, H.M. Zheng and S. Takahashi	303
Adaptive Decoupling Design of Constant Temperature and Humidity Control System Based on GPC and Multi-Model Control R.B. Zhang, X.L. Huang, L.H. Wang and J.J. Guo	308
Research on the New Double-Wave-Bands Treatment System Z.X. Li and W.F. Hu	312
MCU-Based Driven Design for the Electromagnetic Valve of the Repeated Impact Testing Machine X.D. Liu, J.G. He, G.Y. Fu and C.S. Li	317
Development of the Online Detection Controlling System on Stagnant Force of Car Seat Slideway R.H. Ma, Y.H. Ge and F.Y. Wang	321
Virtual System of NC Milling Based on 3ds Max and Open GL Modeling Z.J. Ding, J.F. Ni, L.L. Lu and X.W. Xu	325
Rao-Blackwellized Particle Filtering for Mobility Positioning in Mixed Sight Conditions H.M. Hu	329

Research on an ECG Wireless Monitoring System Based on GSM H.J. Wang, Z.G. Hu and Z.N. Wu	333
Cartridge-Case Extracting Analysis of some Breech Mechanism Based on Flexible Body Dynamics Method W.X. Tang, J. Zhang and P. Zhang	338
Deployment with Sampling Coverage in Three-Dimensional Wireless Sensor Networks Z.Q. Jiang and S. Yan	342
Finite Element Analysis and Development for a New Draft Gear of Locomotive Couplers Y.G. Wei, L.Q. Wang and X.J. Zhang	347
Improved Design of Thermal Airflow Process for the Annular Cooler and Fluent Simulation X.L. Zhang, W.X. Gao, L.Q. Chen, J. Xu and A.X. Feng	351
Research on Energy Estimation Mechanism for Wireless Sensor Nodes X. Yu, Z.J. Chen and X.L. Cai	357
Study on Substrate Humidity, EC and Salinity <i>In Situ</i> Detection Technology Q.Y. Sheng, P.P. Li, X.L. Zhang, Z.G. Liu, L.J. Zhao and Y.G. Hu	361
The Application of CAN Bus in Monitoring and Controlling System for Combine Harvester J. Chen, Y.L. Zheng, Y.M. Li and X.H. Wei	366
Transistor Compensation Technology of Pressure Sensor Sensitivity Temperature Coefficient Q. Wang, J. Zhang, R. Hu and G.Q. Sun	371
The Analysis of Static and Dynamic Characteristics of Motorized High-Speed Spindle Based on Sensitivity Analysis of FEM Model S.M. Yuan, M.B. Lv and X.H. Liu	376
Simulation and Optimization of Job Shop Scheduling for Dry Transformers Based on eM-Plant J.F. Ni and K.Z. Tang	382
Parameters Optimization of Laser Shot Peening Based on Multi-Island Genetic Algorithm W. Wang, J.Z. Zhou, S. Huang, Y.J. Fan, C.D. Wang and J.R. Fan	387
Antifriction Effect of Micro-Deep Holes for Higher Pair Components A.P. Song, S. Gao, J.W. Huang and L.F. Zhang	391
Study on the Inner Helical Gear Form Grinding Wheel Dressing Technology J.X. Su, X.Z. Deng, X.Z. Ren and K. Xu	397
Research on the Key Process Parameters in Direct Laser Deposition Using Coaxial Inside-Beam Wire Feeding Y.K. Wang, S.H. Shi, G.Y. Fu and C.S. Li	401
Research on the Equipment for Electrostatic Flocking of the Activated Carbon Fibers Q. Wu, Y.M. Qian, Q. Wang and Y.D. Zhou	405
Study of Tooth Profile Design with Asymmetric Double Circular Arc Gears for Pumps Y.W. Liu and J. Fan	409
Contact Model of Double Circular Arc Gear Based on Fractal Theory K. Huang, S.B. Han, R.D. Yang and S. Xu	414
Experimental Research on the Surface Roughness Characteristics in Ultrasonic Vibration Lapped Surface of Titanium Alloy L. Zhu and J.Y. Li	420
Surface Heat Transfer Coefficient's Calculation of W9Mo3Cr4V during Cryogenic Treatment Z.R. Liu, C.X. Ren and X.G. Yan	424
Experimental Study on Warping Height of PA12/HDPE Specimen by Selective Laser Sintering N.F. Ren, P. Wang, Y. Luo and H.J. Wu	430
Study on the Clearance of Impeller and Draft-Tube on Stamping and Welding Multistage Centrifugal Pump Y.Y. Liu and R.G. Li	434
Study of Liquid Desiccant Air Conditioning System Combined with Cognitive Sensing Network J.Z. Chen, J. Huang, Y. Lv and X.H. Song	438
Kinematics Analysis and Workspace Analysis of a New Kind of Stabilized Platform M. Nin, J.R. Hao and J.H. Sun	443

Research of Novel Hybrid-Electromagnetic Actuator with Adjustable Rigidity and Damping W.G. Wu and L.Z. Ma	448
Effect of Strain Rate on Tensile Properties of Tissues in Tail Flukes of Dolphin Q.L. Sun, H. Morikawa, S. Kobayashi, K. Ueda, H. Miyahara and M. Nakashima	453
Monitoring Method of Stray Current in Coal Mine on Optical Fiber Sensing Technique L.H. Cai, W. Li and H.F. Fang	457
Structure Analysis and Improvement of Mining Explosion-Proof Control Switch Case Based on ANSYS F. Chen, Z.H. Shao and J.M. Li	463
Experiment Research on Improving the Fatigue Life of 12Cr2Ni4A Welding Joints by Laser Shock Processing C. Wang, L.C. Zhou, Q. He, Z.F. An and J.Z. Lu	467
Study on MEMS Microgripper Integrated Vacuum Tool T. Chen, L.G. Chen, M.Q. Pan and L.N. Sun	471
Design of Mechanical and Combustion System for Small Non-Road Diesel Engine to Meet the EPA IV Emission Regulations B.F. Yin, T. Guan, J.G. He and Y. Xu	476
The Design of the Small and Low-Power LED Display System Based on Infrared Serial Communication J.Y. Fei, M. Zhou, K. Gao and E.X. Ji	480
3-Axis NC Rough Tool-Path Generation from Discrete Data Points of Reliefs W. Liu, L.S. Zhou and L.L. An	484
Research Advance in Laser Shock Processing Surface Modification Technology on Metal Alloys X.C. Li, Y.K. Zhang and J.F. Chen	488
Two-Dimensional Stability Analysis of Interrupted High-Speed Milling Z.X. Lin, X. Huang and M.M. Akhtar	492
Study on the Mechanical Properties of the Elliptic Ultrasonic Vibration Cutting Process H. Li and Z.Y. Cao	499
Networked Information Integrated Service Platform for Gear Enterprise J.B. Li, X.Z. Deng and T.X. Li	505
A Study on the Ni-P-SiC Coating of AZ91D Magnesium Alloy X.L. Ge, B. Zeng, Z.C. Chen, D. Wei and C.J. Wang	510
Research on Kinematic Chain Isomorphism Identification Method Based on the Standardization Adjacent Matrix M.Z. Ge, J.Y. Xiang and Y.K. Zhang	514
Design of Magnetic Fluid Sealed Structure for the High-Speed Non-Woven Loom Needle Spindle J.F. Huang and Y.N. Rui	519
Investigation on Tooth Face Width Characteristics of Offset Face-Gear Drive D.Q. Li, X.Z. Deng and B.Y. Wei	525
Integrated Approaches for Generating Principle and Structural Innovation Concepts of Mechanical Products Z.G. Han, R.Q. Hao and X.J. Zheng	531
Countermeasures against the Noise of Ring-Plate-Type Cycloid Reducer Y. Liu, W. Liu, B. Yang and X.P. Zhang	537
Modeling and Control of Unmanned Trimaran Vehicles Y. Peng, M. Liu, Q.J. Huang and J. Luo	541
The Electric Field Analysis of the Structure of New Micro-Machined Gyroscope K. Huang, G. Qian, Q.S. Liang and Y.F. Qu	546
Research on Reverse Design of the Cam Mechanism M.F. Liu and Z.L. Qian	551
Research on Tool Post Angle of Standard Hob Cutting Modified Gear Z.L. Qian and Y. Chen	555
Research on the Profile Error Evaluation and Visualization of Free-Form Surface N. Su and H. Guo	560
Study on Characteristics of Inner Ring Laser Powder Feed Molten Pool of Thin Workpiece S.H. Wu, S.H. Shi, J.Y. Xiao and G.Y. Fu	565

Residual Stress Determination by X-Ray Diffraction with Stress of Two Directions Analysis Method	
A.X. Feng, H.Y. Sun, Y.P. Cao, C.C. Xu, G.F. Ni, J.W. Wang and P.C. Zhou	569
Comparison Research on the Machinability of Hardened Steel when Dry Turning with Ceramic and CBN Cutting Tools	
C.J. Tu, X.H. Guo, W. Wang and C.H. Wang	573
Research on Warpage of Polystyrene in Selective Laser Sintering	
C.Y. Wang, Q. Dong and X.X. Shen	578
Development and Status Quo of High-Speed Cutting	
Y.X. Li, D.X. Wang and W.B. Wu	583
Design of Cam Profile Based on Miller-Cycle	
S.L. Wei, W.Q. Long, Z. Wang and X.Y. Leng	588
The Dynamic Analysis of Self-Anchored Suspension Bridge Based on Ansys	
B.S. Xing, C. Du and X.F. Wang	594
Rolling Block Construction Method of Cylindrical FDSO Based on Semi-Submersible Barge	
T. Ni, Y. Wang, B.N. Li, J. Song and Y.K. Zhang	599
Simulation of the Application of Pneumatic Propulsion Method in Tourist Submarine	
B.C. Li and B. Han	603
Research on Structure and Control System of Laser Surface Texturing Machine	
P.Y. Zhang, M.J. Wang, Y. Jin, X.J. Hua, Y.H. Fu, Z.S. Sheng, W. Ji and H. Fu	610
Influence of La₂O₃ Doping Amount on Properties of NBT-KBT-BT Lead-Free Piezoelectric Ceramics	
X.Y. Huang, C.H. Gao, M.X. Wei and Z.G. Chen	614
Modeling and Analysis for Transmission and Conversion of Hollow Circular Laser	
C.S. Li, S.H. Shi, C.F. Sun, Y.K. Wang and X.D. Liu	619
Numerical Simulation of Fatigue Life on MSC.Fatigue and ABAQUS	
J. Zhang, X. Gu, H.W. Ye and K.W. Li	624
Crack-Propagating Direction of Tire Bead Rubber Determined by J_{max} Criterion	
C.S. Zhu, G.L. Wang, P.P. Li and S.W. Chen	628
Investigation of Laser Marking Technology with the Image Mask of Liquid Crystal Display	
F. Chen, Z.Y. Zhang and Y.M. Wang	633
Research on Automatic Programming System of High Speed Wire Cutting Machine	
K. Cheng, J.F. Ni, L.L. Lv, Z.J. Ding and X.W. Xu	637
Research on Virtual Assembly Technology Based on 3D Modeling Method	
Q. Yu	641
The Research on the Fuel Performance of FsaE EFI Engine	
L.J. Zeng and H.W. Huang	647
Experimental Study on Testing Ni-Containing Stainless Steel Protective Coatings by Pulsed Laser Scratching	
A.X. Feng, Y.P. Cao, C.C. Xu, H.Y. Sun, G.F. Ni, J.W. Wang and P.C. Zhou	651
Research of Virtual Machining Technology of Laser Processing Robot with Multi-Degree of Freedom	
F. Dong, W.Y. He and J. Gu	657
Transient Dynamic Analysis of Machine Ram	
L. Li, G.Y. Fu, N. Zhu and H.Q. Lu	662
Elastic-Plastic Impact Loads of Steel Spheres Impacting on Planes	
Y. Liu, C.L. Du, J.J. Zhang and H. Jiang	666
Experiment Study of Influence on Laser Beam Quality Induced by Thermal Lens Effect and Depolarization Effect	
X. Ye, H.B. Yao, Y.Q. Tong, Y.K. Zhang, R.X. Cao, X. Wang, Y.F. Gao and X.F. Xu	670
Structural Analysis of a Teat Cup Liner	
S.H. Adachi, L.M. Bao and O. Yamazaki	675
Investigation on Shock Pressure Absorbing Approaches for a Hydraulic Vibration Generator	
Y. Wang, G.N. Zhu and T. Wei	678
Kinematics Simulation Analysis of Turn-Milling Center Based on Virtual Prototype	
L.D. Zhu, J.Y. Pei, T.B. Yu and W.S. Wang	683

X-Ray Diffraction Analysis Analyze the Error of Residual Stress by Using Mathematical Statistics	
A.X. Feng, C.C. Xu, Y.P. Cao, H.Y. Sun, G.F. Ni, J.W. Wang and P.C. Zhou	687
Flow Numerical Simulation of Centrifugal Pump with Splitting Blades Based on RE	
N.F. Ren, M.M. Chen, J. Jiang and L. Cheng	691
Study on the Data Stream Mining and its Application Facing the Mobile Environment	
J.N. Gu and G.J. Li	695
Pan-CRM in the Environment of CPC	
B. Wei and X. Jing	699
Study of Surface Temperature Distribution in Plastic Sheet Spraying	
Z.L. Chen and J.Z. Yan	703
Numerical Study of Vacuum Casting DVD Panel Based on Silicon Mould	
J. Yang, L. Xiao, J.Z. Zhou, S. Huang, J.R. Fan and Y.C. Dai	707
Improvement of Erosion Behavior and Mechanical Strength of up Resin Composites Filled with VGCF	
D.N. Qian, A.C. Xu, L.M. Bao and M. Takatera	712
The Cutting Simulation of Inconel 718	
J.L. Ren, Q.Y. Zheng, R. He and C.Y. Zhang	717
Nonlinear Dynamic Analysis of Back-Rest System of Type WG-2000 Air-Jet Loom	
L. Sun, Z.H. Feng and S.Y. Wang	722
Dual-Pump Gradient System Based on Chromatograph	
X.P. Sun and W.J. Liu	726
Research of Service-Oriented Complex Product Cooperated Development Method	
W.D. Wu and W.H. Liao	731
A Layered Model for the Growth of Solid Tumors in Vascular Phase	
K.H. Zhan, L. Bai and H.Q. Dai	736
Causes of Nonconformity of IE Power-Driven Machines and its Solution	
L. Zhao, J.F. Ni and J. Yang	740
PCA for Leukemia Classification	
J. Li and G.R. Weng	744
A Study on the Technology and Equipment for Recycling Spent Zinc-Manganese Dry Batteries	
Q.Z. He, J.Q. Li and J. Wang	748
The Development of the on Board Diagnostics System on the Keyword Protocol	
F.Y. Wang, R. Qiu and X.D. Zou	752
Research on Strategies of Introducing Negative Entropy Flows into Enterprises under Economic Crisis	
Z.G. Wang	756
A Virtual Woven Fabric of Plain Using Real Float	
J.H. Liu, R.R. Pan, W.D. Gao and H.X. Jiang	760
Discussion on Ballast Water Load Calculation Problem of Semi-Submersible Barge	
D.B. Liao, J.Y. Xue, C.F. Qin and Y.D. Zhou	764
Correlation of Optical Properties and Temperature Distribution in Laser-Induced Thermotherapy of Porcine Liver Tissue	
A.P. Qian, G.R. Hua, H. Zhang and Z.Y. Qian	769
Application of Fuzzy Theory in Evaluation of the University Entrance Art Examination Grade	
H. Li, X.G. Rui and X.M. Jiang	773