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| <b>Research on the Legal Claim in Large-Scale Mechanical and Electrical Engineering in Construction Project</b><br>W.F. Zhou   | 1818 |
| <b>Simulation and Optimization Design of Inversion Six-Bar Linkage on Loader</b><br>Y.L. Zu and J. Wei   | 1822 |
| <b>Vehicle Structure Design an Analysis – Design of Vehicle Braking Disc Based on Knowledge Engineering of CATIA V5</b><br>P.Q. Chu, K. Che, B.T. Zhang and A.R. Wei | 1826 |
| <b>Experimental Study on the Reverse Cleaning and Regeneration of Diesel Engine's Metal Mesh Filter</b><br>Y.W. Zhang  | 1834 |

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| <b>Formula SAE Racecar Suspension System Design</b><br>J. Li, S.H. Yu, N.F. Zhang, H. He, Z.J. Yang and Y.M. Jia                                      | 1840 |
| <b>Study on the Trajectory Simulation of the Ballistic Missile</b><br>H. Wang, C.M. Tong and J.J. Sun   | 1845 |
| <b>Research on the Ballistic Model and Simulation of Sensing Reconnaissance Submunition in Falling Stage</b><br>J. Li, Y. Li, Z.Y. Zhang and G.S. Liu | 1851 |
| <b>Thermal Analysis of FSAE Racing Brake Disc Based on Algor</b><br>S.H. Yu, J. Li, N.F. Zhang, M.L. Jiang, Z.P. Liu and G. Zhu                       | 1856 |
| <b>Appearance Design of Construction Machinery Based on Perspective of Industrial Design</b><br>Y. Zhou   | 1861 |
| <b>Research on the Whole Stability of WZ30-25 Backhoe Loader</b><br>Y.L. Zu and H. Rui  | 1866 |
| <b>Turning and Milling Machining Center Spindle Box of Three Dimensional Design</b><br>X.H. Chen  | 1870 |
| <b>Study on the PDC Bit Optimization Design Based on Rotary Steering Drilling</b><br>G.M. Han   | 1874 |
| <b>Regulation of Bolt Stamping Process</b><br>Y.H. Wu   | 1879 |
| <b>Dynamic Analysis of Support System of Permanent Magnet Traction Motors for High-Speed Trains</b><br>T. Li, J.C. Zhang and Y.T. Fang                | 1883 |
| <b>Profiled Hole Stamping Progressive Die Design</b><br>X.H. Gao and M.Q. Wu  | 1889 |

## **Chapter 11: Geology, Exploration and Processing of Mineral Resources**

|  |      |
|--|------|
| <b>Application of Key Technologies of Expansion Pipe in Oil and Gas Well Project</b><br>Y. Wang  | 1895 |
| <b>Study on the Construction of Database of Mineral Resources and Reserve Space</b><br>S.J. Shi, L.X. Shuo and X.T. Cui  | 1899 |
| <b>Study on Comprehensive Measures of Long-Term Stable Dense Oil Reservoir</b><br>Y. Wang, D.B. Shao, H.J. Lu and X.B. Lu  | 1904 |
| <b>Cenozoic Tectonic Evolution and Controlling Factor on Hydrocarbon Accumulation in the Southern East China Sea Shelf Basin</b><br>Y. Bai, H.L. Wang, Q.R. Li and P. Wu                             | 1908 |
| <b>A Study of Evaluation Model of Human Errors at Risk for the Petroleum Operation</b><br>B.F. Liu and S.H. Liu  | 1914 |
| <b>Optimization on Supply Chain Network Based on High-Tech Products Life Cycle</b><br>L. Zhang and Y.Y. Kong   | 1920 |
| <b>Matlab and Geoscope Joint Inversion Technology under the Constraint of Isochronous Facies Controlled Multi-Point Geological Model</b><br>S. Fang, X.R. Zhang, J. Li and C.L. Xie                  | 1926 |
| <b>Study on the Geocad-Based Stochastic Model for the Reservoir Controlled by the Facies of the Fuyang Oil Layer in Gaotaizi Area, Songliao Basin</b><br>X.R. Zhang, S. Fang, J.P. Liu and M.X. Yang | 1935 |
| <b>Study on the Correlation of Shallow Source Earthquake and Mine Dynamic Disasters in the Weast of Beijing</b><br>T.W. Lan, H.W. Zhang, J.Y. Yu and J. Han  | 1942 |

## **Chapter 12: Urban and Land Resource Planning, Transportation and Logistics**

|   |      |
|---|------|
| <b>Prediction Scheme of Railway Passenger Flow Based on Multiplicative Holt-Winters Model</b><br>Z.M. Wei and H.C. Song | 1949 |
| <b>Research on Integration of Information Flow and Logistics in VMI Based on TPL</b><br>L.Z. Gao                        | 1954 |

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|---|------|
| <b>Research on Electronic Products Recycling</b><br>Y. Zhao   | 1959 |
| <b>Research on Inventory and Transport in VMI Mode</b><br>X.Y. Che  | 1964 |
| <b>Cold Chain Logistics Temperature Monitoring System Based on Internet of Things Technology</b><br>L.Z. Wu and Y. Zhao   | 1969 |
| <b>Earthwork Calculation Based on GPS Discrete Elevation Points</b><br>R.B. Qiao  | 1974 |
| <b>TEAP: A Traffic Jam Early Alert Protocol in VANET</b><br>Q. Jiang and L.Y. Yu  | 1978 |
| <b>Application Models of IOT</b><br>X.H. Guo  | 1983 |
| <b>Traffic Engineering Product Chromaticity Testing Software Development</b><br>M.L. Duan, Q. Xiao, J.Q. Yang, C. Liu, L.J. Wang and X.M. Cui   | 1987 |
| <b>A Research on the Characteristics of Lightning in Hailstorms of Beijing Area by the Method of Analysis the Lightning Detection Data and Numerical Simulation</b><br>C.C. Zhang and M. Ma   | 1993 |
| <b>Study on Allocation for Transportation Mode of Urban Agglomeration Transportation Channel</b><br>L.L. Li   | 1997 |
| <b>Earth's Health Model Based on System Dynamics</b><br>Y. Lin, K. Lu and Y. Li   | 2003 |
| <b>Design on Environmental Emergency Monitoring and Management System Based on GIS</b><br>C. Xie, Y. Kuang and J. Wang  | 2011 |
| <b>Research on an Economic Monitor and Decision Support System Based on Data Warehouse Technology</b><br>Y. Kuang and C. Xie  | 2016 |
| <b>The Application of the Analytic Hierarchy Process (AHP) in Mine Geological Environment Evaluation</b><br>S.J. Shi, L.X. Shuo and X.T. Cui  | 2020 |
| <b>Study on the PNN Neural Network Inversion Based on the Integration of Seismic Multi-Attribute with Frequency Division RGB - Fuyu Oil Layer in Gaotaizi Area, Songliao Basin is Taken for an Example</b><br>X.R. Zhang, S. Fang, J.P. Liu and M.X. Yang | 2025 |
| <b>The Managing and Analysis of Data Information in Monitoring the Passenger Flow</b><br>X.Y. Ji, J. He and J.H. Peng   | 2033 |

## **Chapter 13: Engineering Management and Production Organization**

|   |      |
|---|------|
| <b>Research on the Talent-Post Matching Model of Material Warehouse Based on Support Vector Machine</b><br>S.A. Wang, Q.Z. Zhou and Q.D. Yong | 2041 |
| <b>Recognition of Mechanical and Electrical Accessories in Monitoring Equipment in Nursing Work</b><br>Y.R. Liu                               | 2045 |
| <b>Discussion on the Problems in Building Construction and Research on the Construction Management</b><br>Y.J. Xiao                           | 2050 |
| <b>Engineering Management of Urban Infrastructure Based on Internet of Things</b><br>Y. Chen  | 2055 |
| <b>Construction Enterprise Core Competence Management Research Based on Qualitative Simulation</b><br>Z. Qian                                 | 2059 |
| <b>Design and Development of the Enterprise Asset Management System Based on EAM</b><br>G.X. He   | 2066 |



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| <b>Study on the Maintenance Decision Making of Engineering Equipments Based on Fuzzy Reasoning</b><br>J.G. Ni, X.H. He and J.G. Sun    | 2072 |
| <b>A Status Evaluation Model of Human Errors Probability in Petroleum Operations</b><br>S.H. Liu, B.F. Liu and X.T. Liu                | 2078 |
| <b>Explore the Management of Hydro-Engineering Project and Related Issues about Quality Control</b><br>H.B. Tao                        | 2083 |
| <b>Analysis of the Operational Risk Controls in the Electric Power Plant</b><br>C.Y. Wang  | 2087 |
| <b>Artificial Bee Colony Algorithm to Solve Dynamic Economic Dispatch Considering Wind Power Penetration</b><br>X. He and G.X. Wang    | 2092 |
| <b>On Perfecting Construction Hoisting Machinery Inspection Law</b><br>C.F. Shan   | 2097 |
| <b>Analysis of Resonance Transformer Design Based on Electronic Linear Accelerator</b><br>H.J. Peng                                    | 2102 |
| <b>Application of Cable Grading Perforating Technology in the Oil Field</b><br>Z.Y. Liu, F. Zhang, S.Q. Zhang, X.G. Yang and X.Y. Wang | 2105 |
| <b>Research on the Unit Commitment of Thermal Power Plant Based on Genetic Algorithm</b><br>X. Liu                                     | 2110 |

## **Chapter 14: Related Topics**

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| <b>A Kind of New Electrolytic Capacitor-Less AC-DC LED Driver</b><br>W.L. Chen, Z.P. Wang and X.F. Dong             | 2117 |
| <b>Application of Jacobi - Conjugate Gradient Method in the Two-Dimensional Magnetotelluric Forward</b><br>C.L. Zhu | 2123 |
| <b><math>C_{6m} \times P_{m6}</math></b><br>Y.G. Zheng and Q.W. Zhang   | 2128 |
| <b>Social Work Research under Automation Control</b><br>D.D. Wang and S.B. Zhou                                     | 2132 |