

价值工程

2017年11月下旬刊 (总第473期 / 第36卷)
1982年创刊 2017年11月28日出版

中国商界文联会刊

中国技术经济研究会价值工程专业委员会
中国高等教育学会价值工程分会 会刊

封面刊名题字：袁宝华

主管单位：

河北省科学技术协会

主办单位：

河北省技术经济管理现代化研究会

名誉总编：郜明信

总 编：高志彪

总 编 室：师瑞

电 话：0311-87024742

编 辑 部：马慧霞

刘英禄

电 话：0311-83020178

0311-83036626

传 真：0311-87024742

投稿信箱：vezzsbjb@163.com

网 址：www.vezzs.com

责任编辑：高生明

封面设计：王金军

版面设计：韩宇红

国内统一连续出版物号：CN 13-1085/N

国际标准连续出版物号：ISSN 1006-4311

国内邮发代号：18-2

国内订阅：全国各地邮局

国内发行：河北省报刊发行局

国外发行：中国国际图书贸易总公司

印 刷：廊坊市长岭印刷厂

编辑出版单位：价值工程杂志社

社 址：石家庄市槐安西路88号卓达
物业楼A501室

邮 编：050091

国内定价：30.00元人民币

海外定价：30.00美元

目录

* 价值管理 *

- 关于持续推进企业安全生产主体责任的一些思考 朱立凡(1)
浅析建设单位如何做好建设项目全过程造价管理 李燕等(4)
核电项目前期工程咨询总承包探讨 肖松雷等(7)
家庭财产安全风险评价与保险方案设计研究 段佳琦(9)
基于生命周期理论企业绿色融资路径及风险治理 陆颖超等(13)
大力发展乡村休闲旅游业，推进美丽乡村建设 罗智颖(16)
建筑工程前期造价在设计阶段的控制与管理方法探析
..... 李楠楠等(18)
基于人口流动对农村经济社会发展的影响研究 韩亚平等(20)
地铁施工管理与施工技术的探讨 杨永青(22)
造价管理在施工企业电气工程的探讨 靳海波(24)
高速公路桥梁混凝土工程施工技术管理 陈梅卿(26)
浅谈行车调度对铁路运输的重要性 陈少宁(28)
基于BIM云平台的城市轨道交通施工安全风险管理研究
..... 刘维跃等(30)
烟草商业企业客户经理岗位素质评价方法探讨及应用
..... 邵健等(34)
强化公路工程试验检测，提高公路工程质量 向峻昌(37)
新形势下陆军装备维修保障体系改革探析 孙万国等(39)
浅谈高职班主任管理策略 冯里(41)
基于博弈关系的BIM应用激励力度及对策研究 宋家仁(43)
基于贝叶斯网络的施工项目进度计划动态更新方法 邓东磊等(45)
浅析如何加强永锦公司科技创新管理工作 邵丽华(48)
贝叶斯方法对地产项目的风险分析及决策建议 石姣璐梓(50)
基于DEA的施工央企地方医疗统筹职工满意度评价 李彦等(52)
数据架构模型在企业管理中的应用 史松等(54)
外商直接投资(FDI)对治理以SO₂为首的大气污染和雾霾的帮助
..... 杨昆等(56)
饭店行业节能管理标准及能耗特点研究 阳淑媛(60)
基于ERP的人力资源管理信息化研究 李荔(63)
万科地产财务报表分析 周雨(64)
水电工程移民安置规划变更与程序完善对策 王宝忠(66)
基于全球价值链的制造业安全风险管理 宋利(69)
杭州庆春路过江隧道BOT项目运营管理与思考 吴成钢等(71)

* 价值链·供应链 *

- 云存证技术在电子商务监管中的应用 蒋宏等(74)

* 功能载体创新 *

- 基于STM32与GSM的车载儿童安全智能报警系统的设计
..... 刘琼琼等(76)
大型混凝土构件桥墩装配式制作安装施工技术研究 曹伟(78)
MTP催化剂反应性能评价体系的建立 齐静等(81)
地铁车站明挖基坑地下连续墙质量通病分析及预防对策
..... 王俐瑶(85)
基于PowerMILL和CATIA的叶轮五轴联动高速加工技术研究
..... 王佳(88)
电动汽车充电器的平均值模型 杨梦勤等(92)

手臂康复训练机器人研究现状	姚又琳 等(93)	陆军部队蛙跳伴随式装备保障浅探	王学智 等(180)	
烟厂离心风机隔声罩的设计与研究	马杰圣 等(96)	电子商务背景下高职院校市场营销人才培养模式探析	胡旭东(182)	
复杂异形贮箱成形工艺分析	娄依志 等(99)	基于坡度分析的丘陵城市形态设计策略研究	田建 等(184)	
云桂铁路对门山隧道富水软岩大变形段掘进施工技术研究	才泳(100)	基于工程能力培养的校企合作实践教学体系构建	周俊 等(186)	
提高地热开发利用效率的研究	杨卫 等(103)	CDIO 教育理念下 Android 移动开发课程建设探索	周晓磊(188)	
CCY 型齿轮模压淬火机床电气研制探索	吴红(105)	强夯法在消除建筑地基黄土湿陷性的应用研究	廉友(190)	
隧洞洞脸高边坡被动防护网的施工方法研究	唐毅 等(107)	浅谈信息技术在司法审判中的应用	范崇(193)	
管道深基槽施工技术分析	王俊锋(109)	大学生对创业和孵化园的态度现状调查研究	白敏植 等(194)	
伪斜布置在倾斜煤层中的应用及分析	马骁(111)	面向中学实验的虚拟现实技术	刘之帆 等(197)	
电力通信传输线路优化设计和施工技术探讨	毕勇(113)	基于任务驱动的非计算机专业《计算机网络》课程探索	颜洲(198)	
高层房屋建筑工程钢结构施工关键环节及技术要点分析	姚红洋(116)	基于 Sigmoid 学习率 BP 神经网络的非特定人语音识别	戚龙(200)	
35kV 农网站备自投装置投运措施研究	王会斌(118)	算法研究	长沙市高职院校毕业生就业大数据统计分析	臧芳 等(202)
基于 Vericut7.3 四轴虚拟机床建模和仿真的关键技术研究	叶选林 等(120)	风景区旅游厕所设计及实践研究	李春(204)	
地源热泵技术在变电站冷却降温方案中的运用研究	张旻(123)	相生·相济:城镇化中传统农业的出路	刘红霞 等(206)	
新型内锥式流量传感器设计研究	秦萍(125)	新金融环境下工科类院校金融工程人才培养模式探讨	罗志(208)	
SMW 工法在平潭金井五路箱涵施工中的应用	杨广磁 等(128)	基于三标度模糊层次分析模型的工商管理类专业学生实践	郭毓东 等(210)	
建筑工程结构实体检测的技术方法研究	彭铭强(131)	能力评价	基于灰色聚类法的某公路混凝土桥梁耐久性评估	任忠英 等(213)
复杂地质条件下铁路隧道施工技术研究	韩浩(133)	公路路面施工的注意事项研究	黄河滔(215)
跨大郑铁路特大桥转体连续梁转盘制作与安装控制技术	夏远东(136)	餐饮废水水质监测与评价	孟繁艺 等(217)	
复杂环境下城市地铁暗挖施工关键技术	吕涛(140)	浅析信息化背景下高职建筑类专业学生信息素养能力的培养	郑忻(219)	
* 价值应用 *				
基于移动互联网的《国际货代实务》M-course 设计研究	黄莉明(143)	以城市文化为内涵浅析特色小镇的规划	孙洋(222)	
测绘工程中的测绘新仪器、新技术应用分析与研究	刘家兴(145)	基于强度折减法与极限平衡法对滑坡稳定性的综合评价	陈思娇(224)	
现代企业需求与高等院校人才培养的对接	李扬(147)	基于虚拟仿真技术的轮机工程专业认知与实践的探讨	包国治 等(227)	
地理国情监测内容分类与指标体系构建方法研究	冯俊贵(149)			
基于认知规律的《建筑识图》信息化教学设计	王云 等(151)	* 理论综述 *		
BIM 技术在建筑工程管理中的应用	刘奕(153)	美国国防采办大学培训课程体系及启示	王萍 等(229)	
道路混凝土路面施工技术及应用的探讨	孙怡(156)	黑箱理论视角下在线口碑对最终消费者购买意愿的		
大学生志愿服务的实践育人功能实现路径初探	林佳(158)	实证研究	刘佳奇 等(233)	
浅谈教育生态学视阈下如何对五年制高职的结构进行优化	林英(160)	中国粮食生产贸易对粮食安全问题研究综述	蔡禧鹏(236)	
关于我国高等职业教育师资队伍建设的几点思考	刘辕 等(162)	基于重庆地域性的历史街区环境改造模式研究	秦岭(239)	
电气自动化控制系统发展趋势探究	庞宇峰(164)	社会文化理论视域下英语微课的实践研究	华薇(241)	
食品中酸水解法测定脂肪的细节优化	赵蓉(166)	现代测绘地理信息理论与技术发展综述	刘超群 等(245)	
高校图书馆与网络舆情检测与引导	马凌云(167)			
基于 Pajek 软件下听歌软件中流行歌单的社会网络分析	张双(170)	* 综合 *		
以昆明医科大学为例对云南医药类高校开展创新创业教育的分析研究	严彦 等(172)	浅谈中职英语课堂中学生质疑能力的培养	吴建华(247)	
论高职院校教师专业技能水平如何与时俱进	陈佶(174)	风景园林应用基础理论与实践结合模式的探讨		
大学生综合素质培养及能力提升路径探究	李超 等(175)	.....	黄绍辉(249)
PBL 模式在逆向工程技术课程中的应用探索	陈海吉(178)	学校网络教学平台在胡格模式中的运用	姜晓霞(251)	
		基于作业的互动教学在钢铁冶金原理教学中的运用	杨凌志 等(252)	
		“互联网+”时代下网络技术课程的改革实践	黄姝娟 等(255)	
		基于工作过程的项目化课堂创新与实践	朱维香(257)	

Value Engineering
(VE)
Fortnightly Issue
Started in 1982
Vol.36 11.c
(Sum No.473)
Published in Nov. 28, 2017

Inscribed: Yuan Baohua
Honorary Editor-in-Chief: Gao Mingxin
Executive Editor-in-chief: Gao Zhibiao
Manager: Hebei Association for Science and Technology
Sponser: Hebei Institute of Technology Economy and Modern Management

Chief Edior's Department: Shi Rui
Editor: Editorial Team of VE
Publisher: Magazine Publishing House of VE
Address: Room A501, Zhuoda Property House, No.88 Huai'an Road
Tel: (0311) 87024742
E-mail: vezzsbjh@163.com

Printed by: Changling Printing House, Langfang
Distributor: Shijiazhuang Post Office
Subscriptions: Chinese Local Post Office
Domestic Issue Code: 18-2
Domestic Single Price: ¥30.00
Overseas Single Price: \$ 30.00
Open Publishing
ISSN 1006-4311
CN 13-1085/N

CONTENTS

VALUE MANAGEMENT

- 1 Some Thoughts on Continuing to Promote the Main Responsibility of Enterprise Safety Production ZHU Li-fan
 4 How Construction Units Do the Whole Process Cost Management of Construction Project Well LI Yan, et al.
 7 A Discussion about Nuclear Power Project Prophase Engineering Consulting Contract XIAO Song-lei, et al.
 9 Study on Risk Assessment of Household Property Security and Design of Insurance Scheme DUAN Jia-qi
 13 Research on Green Financing Path and Risk Control of SMEs Based on Life Cycle Theory LU Ying-chao, et al.
 16 Vigorously Develop the Rural Leisure Tourism, and Promote the Construction of Beautiful Countryside LUO Zhi-ying
 18 Discussion on Control and Management Method of Construction Preliminary Cost in Design Stage LI Nan-nan, et al.
 20 Research on the Influence of Population Flow on Rural Economic and Social Development HAN Ya-ping, et al.
 22 Discussion on Construction Management and Construction Technology of Metro YANG Yong-qing
 24 Discussion on Cost Management in Electrical Engineering of Construction Enterprises JIN Hai-bo
 26 Construction Technology Management of Expressway Bridge Concrete Project CHEN Mei-qing
 28 Discussion on the Importance of Traffic Dispatching to Railway Transportation CHEN Shao-ning
 30 Safety Risk Management of Urban Rail Transit Construction Based on BIM Cloud Platform LIU Wei-yue, et al.
 34 Discussion and Application of Job Quality Evaluation Method for Customer Managers in Tobacco Commercial Enterprises SHAO Jian, et al.
 37 Strengthen Highway Engineering Test Detection, Improve Highway Engineering Quality XIANG Jun-chang
 39 Analysis of Land Forces Equipment Maintenance and Support System Reform under the New Situation SUN Wan-guo, et al.
 41 Management Strategy of Class Teacher in Higher Vocational Education FENG Li
 43 Research on Incentive and Countermeasures of BIM Application Based on Game Theory SONG Jia-ren
 45 Dynamic Updating Method of Construction Project Schedule Based on Bayesian Network DENG Dong-lei, et al.
 48 How to Strengthen the Management of Science and Technology Innovation in Yongjin Company SHAO Li-hua
 50 Risk Analysis and Decision-making Suggestion of Real Estate Project Based on Bayes Method SHI Jiaoluzi
 52 Evaluation of Local Medical Co-ordination Staff Satisfaction in Construction Central Enterprises Based on DEA LI Yan, et al.
 54 Application of Data Architecture Model in Enterprise Management SHI Song, et al.
 56 The Helping Function of Foreign Direct Investment (FDI) on the Control of Sulfur Dioxide as the Main Component of Air Pollution and Haze YANG Kun, et al.
 60 Study on Energy Saving Management Standards and Energy Consumption Characteristics of Hotel Industry YANG Shu-yuan
 63 Research on Human Resource Management Informatization Based on ERP LI Li
 64 Analysis of Vanke Real Estate Financial Statements ZHOU Yu
 66 Modification of Resettlement Plan for Hydropower Projects and Countermeasures for Procedures Improvement WANG Bao-zhong
 69 Safety Risk Management of Manufacturing Industry Based on Global Value Chain SONG Li
 71 Operation Management and Thinking of Hangzhou Qingchun River Tunnel BOT Project WU Cheng-gang, et al.

VALUE CHAIN·SUPPLY CHAIN

- 74 Application of Electronic Evidence Cloud Services Technology in E-commerce Supervision JIANG Hong,*et al.*

FUNCTION CARRIER INNOVATION

- 76 The Design of Safe Intelligent Alarm System for Vehicle Children Based on STM32 and GSM LIU Qiong-qiong,*et al.*
78 Study on the Installation and Construction Technology of the Large Concrete Structure Assembled Bridge Pier CAO Wei
81 Establishment of Evaluation System for MTP Catalyst Reaction Performance QI Jing,*et al.*
85 Quality Problems Analysis and Preventive Measures of Underground Diaphragm Wall Method in Deep Metro Station
 Foundation Excavation WANG Li-yao
88 Research on PowerMill and CATIA for 5-axis HSM Technology of Impeller WANG Jia
92 Average-Value-Model of Electric Vehicle Charger YANG Meng-qin,*et al.*
93 Research Status of Arm Rehabilitation Training Robot YAO You-lin,*et al.*
96 Design and Research of the Acoustic Shield of Cigarette Factory Centrifugal Blower MA Jie-sheng,*et al.*
99 Analysis of Forming Process of Complex Special-shaped Tank LOU Yi-zhi,*et al.*
100 Study on Excavation and Construction Technology for Large Deformation Section of Water-rich Soft Rock in Duimenshan
 Tunnel of Yungui Railway CAI Yong
103 Study on Improving the Utilization Efficiency of Geothermal Energy YANG Wei,*et al.*
105 Study of Electric Control of CCY Quench Press WU Hong
107 Study on Construction Method of Passive Protective Net for High Slope of Tunnel Face TANG Yi,*et al.*
109 Analysis on Construction Technology of Deep Foundation Slot of Pipeline WANG Jun-feng
111 Application and Analysis of Pseudo-oblique Arrangement in Inclined Coal Seam MA Xiao
113 Discussion on Optimization Design and Construction Technology of Power Communication Transmission Line BI Yong
116 Analysis on Key Links and Technical Points of High-rise Building Steel Structure Construction YAO Hong-yang
118 Research on Operating Measures of Auto-switch-in Device of Stand-by Power Supply for 35kV Substation WANG Hui-bin
120 Research on Key Technology of Modeling and Simulation of Four Axis Virtual Machine Tool Based on Vericut7.3
..... YE Xuan-lin,*et al.*
123 Study on the Application of Ground Source Heat Pump Technology in Cooling Scheme of Substation ZHANG Min
125 Study on the Design of a New Cone-type Flow Sensor QIN Ping
128 Application of SMW Construction Method in Box Hole Construction of Pingtan Jinjing No.5 Road YANG Guang-ci,*et al.*
131 Research on Technical Method of Structural Entity Detection in Construction Engineering PENG Ming-qiang
133 Study on Construction Technology of Railway Tunnel under Complicated Geological Condition HAN Hao
136 Fabrication and Installation Control Technology of Swivel Continuous Beam Turntable for Extra Large Bridge across
 Dazheng Railway XIA Yuan-dong
140 Key Technology of Underground Excavation Construction of Urban Subway in Complex Environment LV Tao

VALUE APPLICATION

- 143 Research on M-course Design of "International Freight Forwarding Practice" Based on Mobile Internet HUANG Li-ming
145 Application Analysis and Study of New Mapping Instruments and New Technology in Surveying and Mapping Engineering
..... LIU Jia-xing
147 The Connection between Modern Enterprise's Demands and Talents Training in Colleges and Universities LI Yang
149 Research on Content Classification and Index System Construction Method of National Geographic Conditions Monitoring
..... FENG Jun-gui
151 The E-teaching Design of "Architectural Recognition Graph" according to the Law of Cognitive WANG Yun,*et al.*
153 Application of BIM Technology in Construction Engineering Management LIU Yi
156 Construction Technology and Application of Road Concrete Pavement SUN Yi
158 The Exploration about the Realization of Practical Education of College Students' Volunteer Service LIN Jia
160 How to Optimize the Structure of Five-year Higher Vocational Education from the Perspective of Educational Ecology LIN Ying
162 Reflections on the Construction of Teaching Staff in Higher Vocational Education in China LIU Yuan,*et al.*
164 Research on the Development Trend of Electrical Automation Control System PANG Yu-feng
166 Detail Optimization of the Determination of Fat in Food by Acid Hydrolysis ZHAO Rong
167 University Library and Supervision and Guidance on Network Public Opinion MA Ling-yun
170 Social Network Analysis of Pop Songs Based on Pajek Software ZHANG Shuang
172 An Analysis of Innovation and Entrepreneurship Education in Yunnan Medical Universities Based on the Case of Kunming
 Medical University YAN Yan,*et al.*
174 On How to Improve the Professional Skills of Teachers in Higher Vocational Colleges CHEN Ji

175 Exploration on the Cultivation of College Students' Comprehensive Quality and the Way to Improve Their Ability	.....	LI Chao, <i>et al.</i>
178 Application of PBL Mode in Reverse Engineering Technology Course	.....	CHEN Hai-ji
180 Research on the Frog-leaping Companion Equipment Support in Army Force	.....	WANG Xue-zhi, <i>et al.</i>
182 Study on Mode for Training Marketing Talents in Higher Vocational Colleges under the Circumstance of Electronic Commerce	.....	HU Xu-dong
184 Study on the Form Design Strategy of Hilly Cities Based on Slope Analysis	.....	TIAN Jian, <i>et al.</i>
186 Construction of School-Enterprise Cooperative Practice Teaching System Based on Engineering Ability Training	.....	ZHOU Jun, <i>et al.</i>
188 Exploring the Construction of Android Mobile Development Course under the Educational Idea of CDIO	.....	ZHOU Xiao-lei
190 Study on the Application of Dynamic Compaction Method in Eliminating Collapsibility of Loess in Construction Foundation	.....	LIAN You
193 On the Application of Information Technology in Judicial Judgment	.....	FAN Chong
194 An Investigation on the Current Situation of College Students' Attitudes towards Entrepreneurship and Incubation	.....	BAI Min-zhi, <i>et al.</i>
197 Virtual Reality Technology for the Experiment of Middle School	.....	LIU Zhi-fan, <i>et al.</i>
198 Exploration of Task-driven Computer Network Course for Non-computer Majors	.....	YAN Zhou
200 Research on Non-specific Speech Recognition Algorithm Based on Sigmoid Learning Rate BP Neural Network	.....	QI Long
202 Statistical Analysis of the Big Data of Employment of Graduates in Higher Vocational Colleges in Changsha	.....	ZANG Fang, <i>et al.</i>
204 Design and Practice of Tourist Toilet in Scenic Area	.....	LI Chun
206 Interpromotion and Combination: the Way out of Traditional Agriculture in Urbanization	.....	LIU Hong-xia, <i>et al.</i>
208 Discussion on the Training Mode of Financial Engineering Talents in Engineering Colleges under the New Financial Environment	.....	LUO Zhi
210 Evaluation of Practical Ability of Business Administration Majors Based on Three-scale Fuzzy Analytic Hierarchy Process	.....	GUO Yu-dong, <i>et al.</i>
213 Assessment of the Durability of a Highway Concrete Bridge Using the Grey Clustering Method	.....	REN Zhong-ying, <i>et al.</i>
215 Study on the Precautions of Highway Pavement Construction	.....	HUANG He-tao
217 Water Quality Monitoring and Evaluation of Restaurant Wastewater	.....	MENG Fan-yi, <i>et al.</i>
219 On the Cultivation of Information Literacy Ability of Architectural Majors in Higher Vocational Education under the Background of Informatization	.....	ZHENG Xin
222 Analysis on the Planning of Characteristic Towns with Urban Culture Connotation	.....	SUN Yang
224 Comprehensive Evaluation of Landslide Stability Based on Strength Reduction Method and Limit Equilibrium Method	.....	CHEN Si-jiao
227 Research on Cognition and Practice of Marine Engineering Specialty Based on Virtual Simulation Technology	.....	BAO Guo-zhi, <i>et al.</i>

THEORETICAL REVIEW

229 Introduction of the Training Curriculum System at the US Defense Acquisition University and Its Enlightenment	.....	WANG Ping, <i>et al.</i>
233 An Empirical Study on the Impact of Online Word-of-Mouth on the Final Purchase Intention of Consumers from the Perspective of Black Box Theory	.....	LIU Jia-qi, <i>et al.</i>
236 Research Review on the Influence of Grain Production Trade on Food Safety in China	.....	CAI Xi-peng
239 Study on the Environmental Reconstruction Mode of Historic District Based on the Regional Characteristics of Chongqing	.....	QIN Ling
241 A Study on Micro-Lecture Practical Teaching under Perspective of Sociocultural Theory	.....	HUA Wei
245 Review on the Theory and Technology Development of Modern Surveying and Mapping Geographic Information	.....	LIU Chao-qun, <i>et al.</i>

COMPREHENSION

247 On the Cultivation of Students' Query Ability in Secondary Vocational English Classroom	.....	WU Jian-hua
249 Discussion on the Combination Mode of Basic Theory and Practice of Landscape Architecture Application	.....	HUANG Shao-hui
251 Application of Campus Network Teaching Platform in Hug Mode	.....	JIANG Xiao-xia
252 Application of Task-based Interactive Mode in the Ferrous Metallurgy Principle Teaching	.....	YANG Ling-zhi, <i>et al.</i>
255 The Reform and Practice of Network Technology Curriculum in the "Internet +" Era	.....	HUANG Shu-juan, <i>et al.</i>
257 Project-oriented Classroom Innovation and Practice Based on Work Process	.....	ZHU Wei-xiang