中国工业设计协会理事单位 2018年05月 总第142期 邮发代号:14-339 定价:26元

重新设计公共空间中的未来学习体验 ——以上海图书馆创·新空间为例

Redesigning Future Learning Experience in Public Space

NA Case of the Creative New Space of the Shanghai Library

用设计捍卫儿童成长

SAFEGUARD CHILDREN'S GROWTH WITH DESIGN



基于认知行为特征的自闭症儿童辅助工具设计研究 Autistic Children's Auxiliary Tools Design Based on Cognitive Behavioral Characteristics

《山海经》的游戏化之路——科普交互新形式的探索研究 The Way of Gamitication of The Classic of Mourtains and Rivers—Exploration and Research on New forms of Science Popularization Interaction

日常用品做成互动装置,让孩子亲手创作

Daily Products Remade - Hands On

权威聚焦

008 重新设计公共空间中的未来学习体验 ——以上海图书馆创·新空间为例

094 人机工程学在工业设计中的重要性解读

设计与理论

012	《山海经》的游戏化之路——科普交互新形式的探索研究	胡佳琛	路 吴诗中		
016	浅谈户外炊具形式与功能的整合设计	邢 电	易 杨雨薇		
018	以提升用户体验为目的的政府公共服务网站界面结构优化研究	陈明	F		
020	基于"慢生活"设计理念的陶瓷产品设计研究	李晓色	፟ 蔡克中		
022	浅谈唐山皮影的审美意蕴	杨声	財 庄一兵		
024	人机工程学在设计实践中的应用——以座便器为例	白俊崎	全 王亚平	张苑	亭婷
026	浅谈家用医疗器械及其模块化设计	赵德明	月 汤文成		
028	基于中国文化元素的 SUV 汽车造型设计分析	惠文請	争许小侠		
030	晋江东石镇井林村古村落景观特色及保护对策探索	杨小倩	青 闫爱宾	郑三	子寒
034	中国北方历史建筑保护和复原设计——以长春市为例	刘 吉	吉 马国乾	霍说	阅尧
036	通道侗锦纹样的艺术特征及其在现代家具设计中的应用	胡波	皮 周辉煌		
038	SOHO 办公家具设计发展的整合分析	张钰雨	雨 杨佳欣	徐	磊
040	家庭影院投影仪的功能与形态设计研究	李 耋	<u>E</u>		
042	明代圈椅的人机工程分析及其文化内涵研究	杨帅	ф		
044	基于传统文化的青少年产品设计研究	汪异绰	ŧ		
046	漆艺肌理的可塑性语言在文创产品设计中的运用	陈开科	4		
048	阳江漆艺在首饰设计中的应用	敖道金	È		
050	基于认知行为特征的自闭症儿童辅助工具设计研究	姜ラ	も 韦钰婕		
053	浅析明代火器的发展对其形态造型设计的影响	冯峭	争		
055	关于"315"工艺站发展的可行性研究	巩芹=	字 渊		
057	律动图形在陈列陶瓷品中多维性表现	张林	木 伊延波	李	林
059	浅谈视错觉手段在平面设计中的应用	高原	京		
061	现代香烟包装设计探讨	赵文杰	Ϋ́.		
063	浅谈中国传统文化在室内设计中的传承	周方兒	₹		
065	户外景观设计中的仿生学研究	孙剑村	乔		
067	浅析夜间景观照明设计中公共空间的照明设计	张易	反 冬		
069	基于 Ecotect 的老旧小区公共环境改造研究——以宜昌市城昌花园为例	凌志常	常 程丽媛	刘	迪
072	儿童友好型互动空间设计浅析	姚姵妥	\		
074	基于可持续性的太阳能生态校园设计	朱姚	那 李伊娜	张	莉
076	浅析小户型空间中的陈设设计	王叶于	7		
078	基于民族审美意识理念下的藏族建筑色彩研究	涂传的	与		
080	生态建筑设计的初步探讨	岳瑞镇	夆		
082	浅论书法在陶瓷装饰方面的应用	杨镇	夆		
084	实验性综合材料在现代漆画创作中的探索	史永钦	欠		
086	现代漆立体创作的幽玄情结	林 卵	D .		
088	谈古论今——汝瓷与技术美学关系	刘嘉玮	韦 徐国栋		
090	论述环境设计和中国画的审美区别——以人物画和建筑设计为例	张尹	-		
092	用蓝海战略思维剖析工业设计公司未来发展	宋涛	寿 沈佳彬		

赵淑影

1 FIRST





教育与创新

新旧动能转换语境下工匠精神的传承与创新研究 王志远 基于蒙台梭利教学法的幼儿园绘画教具设计思考 098 邓杨洋 王金广 100 关于本科产品设计专业毕业答辩评审的探讨 柳瑄赵彦 103 基于应用型人才培养模式下的环境艺术设计专业发 展研究 李 媛 105 基于学生实践和创新能力培养的工业设计专业课程 群的构建 凌雁 高职工业设计专业创新创业应用型人才培养模式研究 107 蔡晓红 建筑类高职院校实训基地环境设计研究 李晓嵩 109 关于产品设计思维能力的培养策略 浅析视觉传达设计中创意性思维的提升 郭建艺. 113 传统民间美术课程在高校艺术设计专业的延伸 徐 丽

前沿与动态

117 人机交互导向下机电类产品造型设计创新研究 杨岩常瑜王一默 119 基于李克特测量法的老年产品用户认知度研究 杨冬梅 李 洁 赵芳华 121 骑行中控系统的功能应用与研究 宣美华 吕从娜 陈禹竹 123 绿色设计在工业设计中的应用探究 胡青 基于低碳饮食的个人营养料理伴侣机概念设计研究 胡晓涛 李达富 胡新明 温耀敏 125 3D 打印技术在古代早期陶器复制中的应用 卜卫民

技术与实践

131 电动客车空调排风热回收的设计与仿真
133 飞机制造工艺规范体系建设要素研究
135 汽车油泥模型数控加工技术分析
137 ETV高门架叉车车型钣金件加工工艺分析
139 一种低地板轻轨车辆用弹性车轮的设计研究与仿真分析
141 自适应转向架设计的应用现状及发展趋势研究

全自动热切机的设计与实践

郎晓玥 胡广地 李长庆 姜春玉 回 艳 宁晓东 张 霓 史瑞芳

周 勤 刘晖霞 李鸿浩 皇甫立志 赵忠志 张奇巍

2 SECOND

专题报道

145 2018 中国设计品牌大会在京隆重闭幕146 2018 全国设计师大会开幕

146 工业设计指数调研座谈

设计前沿

147 RMO 体温计——额前轻扫,体温揭晓

148 儿童后置安全座椅148 智普婴幼儿高脚椅

148 多感官摇篮

149 可陪病患儿童嬉戏的机器人 gasparzinho

150 真正伴随儿童"成长"的童装

151 云端小筑:为儿童打造的互动装置

151 Woobi Play 儿童清吸口罩,以一种俏皮的方式与

孩子们相遇 152 针对儿童早教的玩具设计

152 儿童产品的延续性设计

深层解读

153 日常用品做成互动装置,让孩子亲手创作

154 为儿童创作触摸绘本

155 机械斯诺婴儿床——世界第一个智能婴儿床

156 "小故事"概念鞋店,西班牙 / CLAP Studio

157 德国学生设计的趣味儿童家具

158 布鲁克林书桌与您的孩子共同成长

159 拉法儿童软式关闭铰链翻盖书桌

160 虚拟现实,儿童教学利器

027 《工业设计》杂志 2017 年度新闻记者证核检公示

封二

斯诺婴儿床——世界第一个智能婴儿床

丰4三

《工业设计》杂志征稿 征订启事

143

CONTENTS

AUTHORITATIVE VIEWPOINTS

Redesigning Future Learning Experience in Public Space
 A Case of the Creative New Space of the Shanghai Library

3 THIRD

DESIGN AND THEORY

012 The Way of Gamification of The Classic of Mountains and Rivers—Exploration and Research on New forms of Science Popularization Interaction

016 Integrated Design of form and Function of Outdoor Cookware

018 Research on Optimizing the Interface Structure of Government Public Service Website Aimed at Enhancing User Experience

020 Study on the Design of Ceramic Products Based on the Design Concept of Slow Life

022 On the Aesthetic Implication of Tangshan Shadow Play

024 Ergonomics Application in Design Practice—Take a toilet as an example

026 Brief Discussion on the Modular Design and Home Medical Equipment

028 The Analysis of SUV Modeling Design Based on Chinese Cultural Elements

O30 Exploration on the Landscape Characteristics and Protection Strategies of Ancient Villages in Jinglin Village, Dongshi Town, Jinjiang City

034 Historical Building Protection and Restoration Design in North China—A Case Study of Changchun City

036 Artistic Features of Tongdao Dong Brocade Pattern and Their Application in Modern Furniture Design

038 Integration Analysis of SOHO Office Furniture Design Development

040 Research on Function and Shape Design of Home Projector

042 The Ergonomics Analysis and Cultural Connotation of Ming Dynasty Circle Chairs

044 Adolescent Product Design Based on Traditional Culture

046 The Strategy of Urban Landscape Image Construction in Harbin

048 The Application of Yangjiang Lacquer Art in Jewelry Design

050 Autistic Children's Auxiliary Tools Design Based on Cognitive Behavioral Characteristics

053 Brief Probe into the Influence of the Development of Firearms in the Ming Dynasty on Its Shape Design

055 Feasibility Study on the Development of "315" Technology Station

057 Multi-Dimensional Performance of Rhythmic Patterns in Displayed Ceramics

059 The Application of Optical Illusion in Graphic Design

061 Discussion on the Packaging Design of Modern Cigarettes

063 Inheritance of Chinese Traditional Culture in the Interior Design

065 Research on Bionics in Outdoor Landscape Design

067 Analysis of Lighting Design of Public Space in Night Landscape Lighting Design

069 Research on the Transformation of Public Environment in Old Communities Based on Ecotect Analysis—Take the

Chengchang Garden Community of Yichang City As an Example

072 Analysis on Children's Friendly Interactive Space Design

074 Sustainable Solar Energy Ecological Campus Design

076 Analysis of the Small Unit Furnishings Design

078 A Study of Tibetan Architectural Color Based on the Concept of National Aesthetic Consciousness

080 Preliminary Discussion on the Design of Ecological Architecture

082 On the Application of Calligraphy in Ceramic Decoration

084 The Exploration of Experimental Composite Materials in The Creation of Modern Lacquer Painting

086 Metaphysical Complex of Stereoscopic Creation of Modern Lacquer

088 Talk About Past And Present

090 Discussing the Aesthetic Difference Between Environmental Design and Chinese Painting—Taking Figure Painting and Architectural Design As Examples

092 Research of Future Development of Industrial Design Company from the Perspective of Blue Ocean Strategy

094 The Importance of Ergonomics in Industrial Design

Hu Jialu, Wu Shizhong Xing Chang, Yang Yuwei

Chen Xin

Li Xiaowei, Cai Kezhong Yang Qian, Zhuang Yibing

Bai Junfeng, Wang Yaping, Zhang Tingting

Zhao Deming, Tang Wencheng

Hui Wenjing, Xu Xiaoxia

Yang Xiaoqian, Yan Aibin, Zheng Zihan Liu Zhe, Ma Guogian, Huo Yueyao

Hu Bo, Zhou Huihuang

Zhang Yuyu, Yang Jiaxin, Xu Lei

Li Xin Yang Shuai Wang Yichun Chen Kaike

Ao Daojin Jiang Liang, Wei Yujie Feng Zheng Gong Qinyu, Li Yuan

Zhang Lin, Yi Yanbo, Li Lin Gao Yuan Zhao Wenjie Zhou Fangzhou Sun Jianqiao Zhang Le, Xia Dong

Ling Zhichang, Cheng Liyuan, Liu Di

Yao Peian

Zhu Na, Li Yina, Zhang Li

Wang Yezi
Tu Chuanshang
Yue Ruifeng
Yang Feng
Shi Yongqin
Lin Qin

Liu Jiawei, Xu Guodong

Zhana Hui

Song Tao, Shen Jiabin Zhao Shuying

EDUCATION AND INNOVATION

096 Research on the Inheritance and Innovation of Craftsman Spirit in the Context of New and Old Energy Kinetic Conversion

098 Teaching Aids Design for Painting in Preschool Based on The Montessori Method

100 Discussion on Graduation Defense Evaluation of Undergraduate Product Design Major

103 Study on the Development of Environmental Art Design Specialty Based on Application-oriented Talent CultivationMode

105 Construction of Curriculum Group of Industrial Design Based on the Cultivation of Students' Practice and Innovation Ability Wang Zhiyuan

Shao Yangyang, Wang Jinguang

Liu Xuan, Zhao Yan

Li Yuan

Ling Yan

107 Research on the Training Mode of Innovative and Applied Talents in Industrial Design Major of Vocational Education

109 Research on Environmental Design of Training Base in Higher Vocational Colleges

111 The Training Strategy on the Thinking Ability of Product Design

113 The Promotion of Creative Thinking in Visual Communication Design

115 Extension of Traditional Folk Arts Classes in Art Design Major in Universities

Cai Xiaohong Li Xiaosong Lu Jun Guo Jianyi Xu Li

LEADING EDGE AND LATEST UPDATES

117 Research on Modeling Innovation of Mechanical and Electrical Products Based on Human-Machine Interaction Guidance

119 Research on User Cognition of Elderly Products Based on Likert Measurement

121 The Function of Ride Control System Application And Research

123 Application of Green Design in Industrial Design

125 A study on the Conceptual Design of Individual Nutrition Partner Based on Low Carbon Diet

128 Application Research of 3D Printing Technology in Early Ancient Pottery Replication

Yang Yan, Chang Yu, Wang Yimo Yang Dongmei, Li Jie, Zhao Fanghua Xuan Meihua, Lv Congna, Chen Yuzhu Hu Qing

Hu Xiaotao,Li Dafu,Hu Xinming,Wen Yaomin Bu Weimin

TECHNOLOGY AND PRACTICE

131 Design and Simulation of Air Conditioning System Exhaust Air Heat Recovery for Electric Bus

133 Study on the Construction Elements of the Aircraft Manufacturing Process Specification System

135 Analysis of NC Machining Technology for Automobile Oil Sludge Model

137 Process Analysis of Sheet Metal Parts for ETV High Portal Forklift Truck

139 Research and Simulation Analysis of Resilient Wheel for Low-Floor Light Rail Vehicle

141 Present Situation in Chinaand Abroad and the Developmenttrend of Adaptive Bogies

143 Design and Practice of Automatic Thermal Cutter

Lang Xiaoyue, Hu Guangdi Li Changqing, Jiang Chunyu, Hui Yan Ning Xiaodong, Zhang Ni Shi Ruifang Zhou Qin, Liu Huixia, Li Honghao Huangfu Lizhi Zhao Zhongzhi, Zhang Qiwei

SPECIAL REPORT

145 2018 China Design Brands Conference Closes in Beijing

146 2018 National Designer's Convention Opens

146 Research Seminar on Industrial Design Index

FEATURES PROJECT

147 Thermo Thermometer Measures Temperature with Just a Swipe Across the Forehead

148 Thule Yepp Nexxt Maxi

148 Sagepole

148 Memola

149 Gasparzinho – Robotic Playmate for Hospitalized Children

150 Children's Clothing, Built to Last

151 Sky Villages: An Interactive Children's Installation

151 Woobi Play – Children's Anti-Smog Mask with Fun

152 Toy Design Focusing on Early Childhood Education

152 Sustainable Design for Children's Toys

INSIGHT

153 Daily Products Remade – Hands on!

154 Picture Book(s) Created for Children

155 Yves Behar's Robotic Snoo Cribworld's First Smart Crib

156 "Little stories" Concept Shoe Store, Spain /CLAP Studio

157 German Students Design Children's Furniture That Encourages Playfulness

158 The Brooklyn Desk Will Grow With Your Child

159 Rafa Kids' K-Shaped Desk Hides a Second Surface Underneath A Soft-Close Lid

160 Virtual Reality, the Educational Tool

027 Bulletin on the Results of 2017 Journalist Certificate Verification of Industrial Design

SECOND COVER

Snoo Crib - World's First Smart Crib

THIRD COVER

Comparison of Two Way of the Assembly Bolt Stress Determination of Flange Joint



