

RCCSE 中国核心（扩展版）学术期刊  
全国报刊索引核心期刊  
重庆市一级期刊

ISSN 1005-2909

# 高等建筑教育

GAODENG JIANZHU JIAOYU

**JOURNAL OF  
ARCHITECTURAL  
EDUCATION  
IN INSTITUTIONS  
OF HIGHER  
LEARNING**

GAODENG JIANZHU JIAOYU

第 29 卷

**2020.**

**1**

万方数据

# 目 录

第 29 卷(总第 146 期)

## 凝聚高校优势 回归工程实践

- 写在《高等建筑教育》一流课程建设专刊发刊之际…………… 周绪红(1)
- 用好慕课,加快提升优质教学资源均衡化之思考与解决方案 …… 叶志明 吴 博 傅建勤(3)
- 结构力学课程混合式教学探索与实践…………… 陈廷国 曲激婷 陈 璨(9)
- “科研-工程-教学”深度融合的建筑力学教学模式创新与实践…………… 陈朝晖 李正良(16)
- 基于“金课”建设的河海大学土力学在线开放课程建设实践与思考  
…………… 沈 扬 吴佳伟 芮笑曦(24)
- 土木工程专业课程体系改革与优化实践探索…………… 杨 勇 史庆轩 师 琳,等(31)
- 着眼教育全过程 改革教学模式 打造工程类专业通识“金课” …… 梁 艳 唐茂林 何 畏(38)
- 土木工程施工基本原理课程 MOOC 教学实践资源建设…………… 胡晓依 席永慧 邓 雪,等(45)
- 学习金字塔理论的工程结构设计原理教学实践…………… 秦卫红 陆金钰 吴 京,等(51)
- 新工科背景下土木工程专业建设法规类课程建设实践与探索  
…………… 王 岩 王 娜 师燕君,等(60)
- 建筑材料慕课建设与教学实践…………… 韩俊南 张婷婷 艾红梅,等(68)
- “金课”背景下土木类虚拟仿真实验教学发展趋势  
——基于 2018 年国家虚拟仿真实验教学项目共享平台公示数据  
…………… 徐伟杰 徐 明 郭 彤,等(74)
- 学生视角下高校土木工程专业 PBL 教学模式改革思考…………… 曹永红 张乃元(86)

---

线上与线下融合的土木工程专业课混合式教学研究 .....	林拥军 李彤梅 潘毅,等(91)
约翰·霍普金斯大学土木工程专业课程设置与教学分析 .....	袁焕鑫 杜新喜 郭耀杰(102)
面向工程教育认证的结构力学课程混合式教学设计 .....	王达詮 陈朝晖(110)
结构力学课程“3W3E”教学法 .....	程斌 向升(119)
激发大学生学习兴趣的方法探讨 ——以混凝土结构基本理论课程教学为例 .....	王博 李红 吴涛(126)
土木工程专业实验教学改革与探讨 .....	勾红叶 蒲黔辉 李小珍,等(133)
工程实验与理论教学的融合方法研究 .....	杨溥 贾传果 刘立平,等(140)
基于学生知识建构的施工技术类课程“四位一体”教学方法的应用 .....	管东芝 陆金钰 朱明亮,等(148)
基于虚拟现实和 3D 打印技术的“虚实结合”教学模式在岩土工程课程中的应用探索 .....	王培涛 任奋华 蔡美峰(156)
BIM 技术在工程估价教学中的全过程应用探讨 .....	覃亚伟 余群舟 孙峻,等(162)
基于学习成效驱动的暖通专业研究生课程多元化考核方法研究与实践 .....	王昭俊 刘京 周志刚,等(169)
给排水科学与工程专业 BIM 课程体系建设探索 .....	张盛楠 高展望 吴贝(175)
土木工程专业材料力学课程教学典型案例剖析 .....	张桂民 王贞硕 董纪伟,等(181)
土木工程专业英语课程改革探究 .....	鲁正 林嘉丽(189)

---



JOURNAL OF ARCHITECTURAL EDUCATION IN INSTITUTIONS OF HIGHER LEARNING

Vol. 29 No. 1 2020

MAIN CONTENTS

Making good use of MOOC and accelerating the thinking and solutions to improve the equalization of high-quality teaching resources ..... YE Zhiming, WU Bo, FU Jianqin(3)

Exploration and practice of blended teaching in the course of structural mechanics ..... CHEN Tingguo, QU Jiting, CHEN Can(9)

Innovation and practice of architectural mechanics teaching mode with the integration of research, engineering and teaching ..... CHEN Zhaohui, LI Zhengliang(16)

Practice on the construction of open online course of soil mechanics of Hohai University under the Golden Courses system ..... SHEN Yang, WU Jiawei, RUI Xiaoxi(24)

Reforming and optimizing practice of civil engineering course system ..... YANG Yong, SHI Qingxuan, SHI Lin, et al. (31)

Teaching mode innovation and construction of general education Golden Courses of engineering on the overall layout of education process ..... LIANG Yan, TANG Maolin, HE Wei(38)

Development of practical resources in MOOC teaching for basic principles of civil engineering construction ..... HU Xiaoyi, XI Yonghui, DENG Xue, et al. (45)

Teaching practice of engineering structure design principles based on the cone of learning theory ..... QIN Weihong, LU Jinyu, WU Jing, et al. (51)

Practice and exploration on the construction of construction regulations courses of civil engineering under the background of emerging engineering education ..... WANG Yan, WANG Na, SHI Yanjun et al. (60)

Construction and teaching practice of building materials MOOC ..... HAN Junnan, ZHANG Tingting, AI Hongmei et al. (68)

Trends of virtual simulation experimental teaching in civil engineering under the background of “Golden Courses”: based on the public data of 2018 national virtual simulation experiment teaching project sharing platform ..... XU Weijie, XU Ming, GUO Tong, et al. (74)

Thoughts on PBL teaching reform in civil engineering from the perspective of students ..... CAO Yonghong, ZHANG Naiyuan(86)

Research on hybrid teaching of civil engineering specialty course integrating online and offline ..... LIN Yongjun, LI Tongmei, PAN Yi, et al. (91)

The civil engineering program and analysis of teaching courses at Johns Hopkins University ..... YUAN Huanxin, DU Xinxi, GUO Yaojie(102)

Hybrid teaching design of structural mechanics oriented to China Engineering Education Accreditation ..... WANG Daquan, CHEN Zhaohui(110)

“3W3E” teaching method for structural mechanics ..... CHENG Bin, XIANG Sheng(119)

Discussion on methods of stimulating university students’ learning interests: case study of the teaching of basic theory of reinforced concrete structure ..... WANG Bo, LI Hong, WU Tao(126)

Reform and discussion on the experimental teaching of civil engineering ..... GOU Hongye, PU Qianhui, LI Xiaozhen, et al. (133)

Research on combining method of engineering experiment and theoretical teaching ..... YANG Pu, JIA Chuanguo, LIU Liping, et al. (140)

The quaternary teaching innovation of construction technology courses based on knowledge construction of students ..... GUAN Dongzhi, LU Jinyu, ZHU Mingliang, et al. (148)

Application of a “virtuality-reality” teaching approach in geotechnical engineering based on the visual reality and 3D printing technology ..... WANG Peitao, REN Fenhua, CAI Meifeng(156)

Analysis of the whole process application of BIM in project valuation teaching ..... QIN Yawei, YU Qunzhou, SUN Jun, et al. (162)

Research and practice on diversified assessment method for postgraduate students in HVAC based on effective learning drive ..... WANG Zhaojun, LIU Jing, ZHOU Zhigang, et al. (169)

Exploration on BIM curriculum system construction of water supply and drainage science & engineering ..... ZHANG Shengnan, GAO Zhanwang, WU Bei(175)

Research on typical cases related to the teaching of material mechanics in civil engineering ..... ZHANG Guimin, WANG Zhenshuo, DONG Jiwei, et al. (181)

Research on the course reform of specialized English for civil engineering ..... LU Zheng, LIN Jiali(189)