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足尺钢桁架连梁恢复力模型试验研究(PDF)

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Title: Experimental study on restoring force model of full-scale steel truss coupling beams

作者: 林倩; 邓志恒; 刘其舟; 唐光暹
广西大学土木建筑工程学院, 广西 南宁 530004

Author(s): LIN Qian; DENG Zhi-heng; LIU Qi-zhou; TANG Guang-xian
College of Civil and Architectural Engineering, Guangxi University, Nanning 530004, China

关键词: 钢桁架连梁; 低周反复荷载; 滞回曲线; 恢复力模型

Keywords: steel truss coupling beam; low cyclic loading; hysteretic curve; restoring force model

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摘要: 对4个足尺的钢桁架连梁模型进行了低周反复荷载试验,研究了结构的破坏形态、滞回性能。利用试验数据进行回归分析,建立了骨架曲线恢复力模型;对滞回曲线进行了分析,研究了连梁的刚度退化规律,建立了循环荷载作用下结构的恢复力模型。模型和试验曲线较为吻合,可用于结构的弹塑性分析。

Abstract: Based on experimental study of low cyclic loading tests on 4 full-scale specimens of steel truss coupling beams,structure's failure pattern and hysteretic performance were studied.Test data were used to regression analysis,and the restoring force model of skeleton curves was established.The hysteretic curves were analyzed and the coupling beams' rigidity degradation law was studied to establish the structural restoring force model under cyclic loading.The models show good agreement with the test curves,and can be used for structural elastoplastic analysis.

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