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## 考虑滑移的锈蚀混凝土偏压构件抗弯刚度模型

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Title: Flexural stiffness model of corroded reinforced concrete eccentric compression members considering bond slip

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关键词: 锈蚀钢筋; 粘结滑移; 抗弯刚度; 粘结退化; 偏压构件

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摘要: 对锈蚀混凝土偏压构件抗弯刚度退化的影响因素进行了研究,采用刚度假析法对粘结性能退化后偏压构件的截面刚度进行了理论分析,引入了锈蚀钢筋滑移的粘结退化综合影响系数,建立了考虑滑移的锈蚀钢筋混凝土偏压构件抗弯刚度的计算模型。经试验验证,模型的抗弯刚度计算值与试验实测值结果吻合较好,故模型计算值可为锈蚀混凝土偏心受压构件性能的评估提供参考。

Abstract: This paper established a computation model of the flexural stiffness of reinforced concrete eccentric compression members with corroded steel bars through systematically investigation of the factors that affect the flexural stiffness of these members. With the introduction of a comprehensive influence coefficient that accounts for the slip of the corroded steel bars, the section stiffness of the members with degraded bond strength was

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analyzes using stiffness analytic method. Experimental results validated that the calculated flexural stiffnesses agree well with the test results, which proves that the proposed model can be used as a reference for the evaluation of flexural stiffness of the