

## **Incentive Award**

### **Proposal of a Completely Non-Destructive Evaluation Method of Corrosion Rate of Reinforcing Steel Inside Concrete Structure**

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Abstract available at the following link.

[https://www.jstage.jst.go.jp/article/jscejmcs/76/4/76\\_315/\\_article/-char/en](https://www.jstage.jst.go.jp/article/jscejmcs/76/4/76_315/_article/-char/en)



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In the maintenance of reinforced concrete structures, it is important to accurately evaluate the corrosion status of the rebars. There are various methods of carrying out such evaluations, but most involve micro-destruction, in which a part of the reinforcing bar is removed from the structure.

The method proposed in this paper allows the corrosion rate of an internal rebar to be evaluated in a completely nondestructive manner. The evaluation methodology is unique and novel, and is also highly versatile, with applicability to reinforced concrete members of various shapes. The paper is recognized as having practical utility because the method is highly promising and may dramatically improve the maintenance and management of existing structures. It is a suitable recipient of the Incentive Award.