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(57) Abstract :

The invention discloses a method for determining the state of fatigue damage of a prestressed concrete beam (PCB), which includes the following steps: determination of the initial dynamic parameters of the PCB and a first static load test; and dynamic test; analysis of modal vibration parameters of a prestressed reinforced concrete beam; Fatigue damage evaluation of a PCB [J]. The invention also provides a measurement device to implement the above circuit. In the present invention, the dynamic test is carried out during the fatigue test of the PCB structure, and the position and degree of fatigue damage of the PCB are analyzed according to the parameters vibration modes, thus achieving the fatigue-damaged state of a prestressed reinforced concrete beam according to modal parameters. This provides a new idea to investigate and test the fatigue behavior of PCBs.

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