METHOD FOR INSPECTING INTERNAL CONCRETE CROSS-SECTION IN STRUCTURE HAVING AN OUTER LAYER

ABSTRACT OF THE DISCLOSURE

The object of the present invention is to provide an inspection method whereby the fracture status, and the like, of an internal concrete cross-section in a structure having an outer layer. The concrete cross-section can be inspected readily in a non-destructive manner.

In order to achieve the aforementioned object, a plurality of wave guide rods are installed in a concrete structure having an outer layer formed on a concrete section, in such a manner that one end of each wave guide rod passes through said outer layer and is exposed externally, while the other end formally is fixed hermetically into the internal concrete section of the concrete structure forming the object under inspection. In the ultrasound inspection method, ultrasonic pulses are input to the internal concrete cross-section and these input ultrasonic pulses are received as output, and in an AE inspection method, elastic waves generated when the concrete section undergoes plastic deformation or break down are detected, by means of the wave guide rods exposed at the aforementioned outer layer.

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