

4.2.30. NDT ON RESPOSE CHARACTERISTCS OF COMPRESSIVE STRENGTH IN A ELECTRONIC IMPACT HAMMER FOR CONCRETE

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Abstract. This paper describes for development of electronic impact hammer of the non – destructive for compressive strength measurement of concrete. There is test method for rebound number, it is used most plentifully in safety inspection of the infrastructure. This electronic impact hammer, it solved the problem of schumidt hammer. It acquires the reliability which is excellent existing schumidt hammer compared to. The electronic impact hammer measurement data is acquired from the detection coil the velocity which and a degree of acceleration response waveform, it will be able to measure the compressive strength of the concrete. From the NDT, following conclusions are described, it is development for accurate measure of the compressive strength of the concrete which it is electronic impact hammer.

Keywords. Electronic impact hammer, Compressive strength, Velocity, NDT, Response.

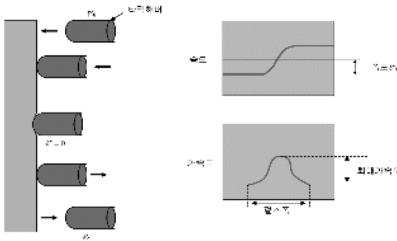


Fig. 1. Impact process and its response process



Fig. 2. Photo of detection sensor