

03 de Julho | 15h00 – 16h00
Faculdade de Ciências e Tecnologia
Universidade Nova de Lisboa
Ed. IX, sala 4.22

palestras

de ENGENHARIA CIVIL na NOVA



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Part 2. Non-destructive testing methods in civil engineering

This lecture proposes a comprehensive classification of test methods for the diagnosis of concrete structures. The main focus will be on the ranges of suitability of the particular methods and techniques for assessing the durability of structures, depending on the principal degradation mechanisms and their effects on this durability. The survey will cover non-destructive testing (NDT) methods, which do not in any way breach the integrity of the tested structures, and semi-destructive testing (SDT) methods requiring material samples to be taken or any other minor breach of structural integrity. An original taxonomy of physical, chemical and biological diagnostic methods, useful in assessment of concrete structures durability, will be proposed. Equipment specific for selected advanced testing methods will be presented as well as exemplary test results.

