

**NANOTECHNOLOGY IN CIVIL INFRASTRUCTURE: A
PARADIGM SHIFT**

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As a results, the electrical resistivity of nanocomposites increases with measurement time under direct current voltage [Luo,]. A bridge made with these materials can achieve in-situ monitoring for structural health and integrity and for the weight, speed, and location of traffic over the bridge Fig. Small CNTs will bring a large revolution in the field of conventional cement-based materials, which should have a beneficial impact on economics, social and environment. Youmaysendthisitemtuptofiverecipients. Makar et al [] showed that the addition of CNTs to a concrete increase the hydration rates and that strong bonds develop between the CNT and the cement paste, while Yakovlev et al [] measured increases of up to 70 per cent in the compressive strength of CNT reinforced concrete and decreases of up to 12 per cent in the heat conductivity of the concrete. Carbon 47, Wansom, S. Advances in Cement Research 20, 65–73 Cwirzen, A. Thisenhancementeffectsresultfromtheenergyreleasecausedbytheserein of the potential benefits of CNT reinforcement of concrete that was not found in literature is the fact that CNTs will not corrode in corrosive environments as happens in steel FRC.