

Title: Innovative Techniques for the Repair and Strengthening of Concrete Structures

Contact Information:

Name: Alex Oteni

Body:

Concrete deterioration in building and bridge components is a serious problem. If the concrete cannot be repaired then it must be replaced. Often times these structures must be closed while repairs are undertaken. Therefore, it is very desirable to create a design scheme that can quickly repair concrete components.

This paper will give a short detailed history of concrete design. Then the causes of concrete deterioration will be identified in the paper. Next the author will identify the different repair schemes being researched and implemented for concrete repair. This section will also include a look into the research of the stress-strain relationships for repaired concrete. Finally, a link between concrete conditions and the best repair scheme will be developed.