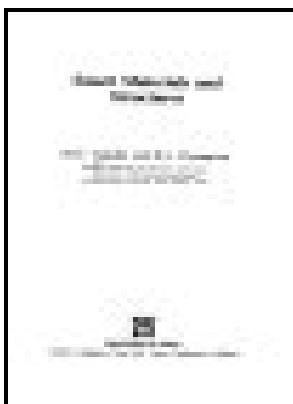


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Smart Structures and Fiber Optic Technology for 21st Century Control Applications

Epoxy microcapsules were prepared by an in situ polymerization method.

Procedures developed for self

Impact fracture and bend tests were performed and revealed the ability of this system to fill and repair cracks, restore strength and retard crack growth. A structure is an assembly that serves an engineering function. It was found that cracking of the repair fiber and subsequent release of the repair chemicals could be achieved.

Procedures developed for self

This work analyzes the research progress on the self-healing of asphalt and asphalt mixtures, including self-healing mechanism, influencing factors, evaluation methods, and improvement aspects. Developing novel electrode and electrolyte materials with self-healing abilities to repair internal or external damages is an important and effective approach for mitigating the degradation of lithium-based batteries.

Smart Structures and Fiber Optic Technology for 21st Century Control Applications

In this paper, a formal definition of a smart structure is provided and an overview of the technologies involved in the smart structures area is given. A significant gain in energy to peak load was also found in SHA filled samples with 86. Catalogue Persistent Identifier APA Citation Crowson, Andrew.

Smart structures and materials 1996. Smart materials technologies and biomimetics : 26 February

The mechanical tests of the samples showed that a recovery of 60% after 24 h at room temperature could be achieved through the use of a solvent and very low concentration of GC. Both types of capsules were incorporated into an epoxy matrix EPON 828:DETA and recovery of mode-I fracture toughness was measured using tapered-double-cantilever-beam TDCB specimens.

Smart Structures, The global leader in wireless Embedded Data Collector (EDC) solutions to improve quality of bridge pilings and deep foundations.

Then, DSR tests were conducted with two-stage loading mode to evaluate the repeated repair ability of asphalt-based crack sealants with different dosages of microencapsulated epoxy resin and curing agent.

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