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Composites Part B: Engineering - Journal - Elsevier

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Carbon nanotube – polymer composites: Chemistry, processing

Introduction to SHM 15 1.2. Motivation for Structural Health Monitoring Knowing the integrity of in-service structures on a continuous real-time basis is

Introduction to Structural Health Monitoring - ISTE

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The Boeing 787 Dreamliner is an American long-haul, mid-size wide-body, twin-engine jet airliner made by Boeing Commercial Airplanes. Its variants seat 242 to 335 passengers in typical three-class seating configurations. It is the first airliner with an airframe constructed primarily of composite materials. The 787 was designed to be 20% more fuel-efficient than the Boeing 767, which it was ...

Boeing 787 Dreamliner - Wikipedia

Self-healing materials are artificial or synthetically-created substances which have the built-in ability to automatically repair damage to themselves without any external diagnosis of the problem or human intervention. Generally, materials will degrade over time due to fatigue, environmental conditions, or damage incurred during operation. Cracks and other types of damage on a microscopic ...

Self-healing material - Wikipedia

Structural Health Monitoring (SHM) aims to develop automated systems for the continuous monitoring, inspection, and damage detection of structures with minimum labour involvement. The first step to set up a SHM system is to incorporate a level of structural sensing capability that is reliable and possesses long term stability. Smart sensing technologies including the applications of fibre ...

Smart Sensing Technologies for Structural Health

Chitin is an insoluble linear polymer of β -1,4-linked N-acetylglucosamine residues. Chitin is the most abundant nitrogen-bearing organic compound found in nature: it is a common constituent of insect exoskeletons, shells of crustaceans and fungal cell walls. Chitin is the second most common biomass. It is produced by a variety of marine animals, insects and fungi.

Chitin-based materials science - Dierk Raabe. com

Soft robotics is an emerging field enabled by advances in the development of soft materials with properties

commensurate to their biological counterparts, for the purpose of reproducing locomotion and other distinctive capabilities of active biological organisms.

3D printed electrically-driven soft actuators - ScienceDirect

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ICT Mumbai

Professor Frances Kirwan Oxford University (United Kingdom) Frances Kirwan is the Savilian Professor of Geometry at the Mathematical Institute in Oxford. Her research lies in the area of algebraic geometry (mostly over the field of complex numbers) and its links with other parts of geometry, especially symplectic (and hyperkähler) geometry.

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Abstract: Environmental, economic, and safety challenges have provoked packaging scientists and producers to partially substitute petrochemical-based polymers with biodegradable ones. The general purpose of this review is to introduce polylactic acid (PLA), a compostable, biodegradable thermoplastic made from renewable sources.

Poly-Lactic Acid: Production, Applications, Nanocomposites

Rank of Keywords of International Conferences on August 9, 2011. LNCS 2011: 37 SIGGRAPH 2012: 32 CRYPTOGRAPHY: 31 ENERGY: 30 AAI 2012: 28 KDD 2012: 26

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