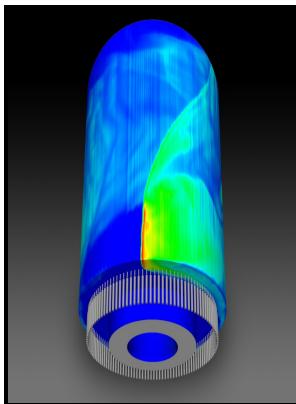


Recent advances in combustion modelling

World Scientific - Recent Advances in Catalysts for Methane Combustion



Description: -

- Latin America -- Politics and government -- 1948-
Combustion -- Mathematical models.Recent advances in combustion
modelling

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Recent Advances in Mechanical Engineering

The CNTs have been used for the detection of biomolecules with immense applications in the biomedical field. An electrochemical biosensor for the determination of tyrosine has been reported. The book covers a wide array of topics including fluid flow techniques, compressible flows, waste management and waste disposal, bio-fuels, renewable energy, cryogenic applications, computing in applied mechanics, product design, dynamics and control of structures, fracture and failure mechanics, solid mechanics, finite element analysis, tribology, nano-mechanics and MEMS, robotics, supply chain management and logistics, intelligent manufacturing system, rapid prototyping and reverse engineering, quality control and reliability, conventional and non-conventional machining, and ergonomics.

New boiler and chiller advances for hospitals

The CNMs do possess a high surface to volume ratio, electrical conductivity and mechanical strength that makes them potential for use in electrochemical biosensors.

Recent Advances in Spray Combustion: Spray Atomization and Drop Burning Phenomena

The glucose oxidase attached SWCNTs exhibited an enhancement in conductance upon adding glucose and thus acting as a biosensor for the enzymatic activities. The Au-Ag alloy coated MWCNTs have been used for the detection of volatile biomarkers of the gastric cancer cells MGC-803. Detection of DNA hybridization The CB has also been used for the biosensing of DNA molecules.

Recent Advances in Mechanical Engineering

The peeling of Graphite in solvents like N-methyl pyrrolidone and surfactant sodium dodecyl benzene sulphonate solution has been reported. They do posses high value of aspect ratio length to diameter ratio than other materials.

Applications in Energy and Combustion Science

In Carbon Black, the presence of sp 2 hybridized carbon atom edge planes and oxygenated groups over the nanomaterials make them capable to attach biomolecules on their surface to act as electrochemical biosensors.

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