Engineering Applications Of Computational Fluid Mechanics

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Researchers created a simulation of a deep-sea sponge and how it responds to and influences the flow of water. The work revealed a profound connection between the sponge's structure and function, ...

Glass sponges have properties for the design of ships, planes and skyscrapers
An Upgraded Software Application Can Better Predict Erosion Processes of Earthen Dams. Contact: Maribel Alonso Email: Maribel.Alonso@usda.gov. July 27, 2021. Scientists and engine ...

An Upgraded Software Application Can Better Predict Erosion Processes of Earthen Dams
NASA has signed a contract with Electra.aero to mature enabling aerodynamic "blown lift" technologies for electric ultra-short takeoff and landing (eSTOL) aircraft in advanced air mobility ...

NASA Boosts Electra's Research and Development
A new £1.1m high-performance computer has been officially unveiled at Loughborough University. Named after the English mathematician Ada Lovelace, the mainframe boasts 58 nodes and 2,230 cores – the ...

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Smartphone screens effective sensors for soil or water contamination
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Machine learning provides a shortcut to simulate interactions in materials for solar energy harvesting
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Smartphone screens effective sensors for soil or water contamination (w/video)
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UTSA grads prepare to tackle engineering challenges of the future
Hypersonic vehicles, which fly more than five times the speed of sound, are constrained by an important aspect: computational ... engineering applications in the past, like space situational awareness ...

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Estimates of PMP are needed in order to estimate the spillway design flood for dams which must be capable of safely passing the probable maximum flood (PMF). For over forty years the standard ...

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A research collaboration that aimed to gain a deeper understanding of the deep sea sponge's interactions with the water around it, has revealed key findings that could guide the future design of ...

Glass sponges could influence future design of buildings
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