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the university of plymouth in the uk boasts an opportunity to build a supercomputer that will be capable of the same computing power as a leading telescope on earth. the development of such a large computing infrastructure requires a collaborative effort with developers, academics and supercomputing users, explained prof. piers rigby. it is a complex and highly technical endeavor, and will require many years of planning and development. to make the vision a reality, a lot of effort is going to be needed. norton researchers used the latest tools and analysis innovations to improve the way their design rules are structured and applied. a new software package made of two top-level components, a visualization and computation system, was created. this helps researchers to test many different design rules in one simulation. with the superior environment, engineers are able to visualize, analyze and interact in the common production environment where they use the underlying advanced materials and technologies. through autodesk helius pfa 2018 manufacture, it is now possible to produce our favorite characters, sports, and animation protagonists in high quality. simpler and more cost-effective design, deployment and operation concepts will bring new innovations and boosts the sustainability of power stations all over the world, said prof. wilfried frings from the environment and power institute in duesseldorf. the fossil fuel industry will respond to this enthusiasm. with 3d printers already part of the mainstream, the future of composite part manufacture has arrived. these printed parts are often not yet fully functional, however, so engineers must figure out how to optimize their structure for part life, while making sure they are within legal or cost thresholds for the intended application. as the technology evolves, a strong toolbox for assessing print quality (e.g., subsurface damage, polymer film thickness, surface roughness, etc.) is vital for ensuring the part meets the required mechanical properties. dells visual inspection software (now vistagy) is an ideal tool to perform such comprehensive and quantitative assessment.

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the material codes used to simulate these composites are range from the very simple single point elastic beam element to the fully coupled solid element and shell element. the strength of the material is usually modelled on the continuum level. the element response to stress is obtained from an interpolation of the stress-strain data determined in experiment. finite element models are also used for component analysis to determine fracture characteristics, load transfer and damage. in the present work, the investigations have focused on the improved prediction of composite damage and the enhanced capability of the structural health monitoring. to study the effect of laminate stacking the work has been focused on the four-layer (11/11), four-layer (22/22) and six-layer (1/1/1/1) of 42/42/28/28. the structural health monitoring investigations on the dual density/clay composites have been based on the residual stresses analysis. the reinforcement effect has been examined for the lower and mid-ply zones. the displacement gradients and von mises stress have been used to predict and classify the damage in these zones. the fem has been used to validate the results. the in-service investigation of the trees on the contaminated sites have been carried out using the ultrasonic imaging to map the contamination and analyze the effects of it on the tree. the effects of the ultrasonic waves have been simulated using the finite element method. the interaction of the ultrasonic pulses with the trees and soil properties has been modeled in detail. ultrasonic waves with 20 khz, 30 khz and 40 khz have been used for the comparative studies. the optimal intensity of the ultrasonic waves has been determined to diagnose the trees and soil from the root to the top of the trees. the contact angle analysis has been used to predict the adhesion between the pebbles and soil which has important implications in stabilizing the geotechnical features. the surface energies have been determined for different particle size to evaluate the influence of the size of the pebbles on the soil adhesion.

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