

Engineering Materials Properties And Applications Of Metals And Alloys

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An introduction to the properties of engineering materials that emphasizes the correlation ... design and function of implantable medical devices, including basic applications of materials, solid ...

Materials Science and Engineering

Throughout the book, the theme is developed that polymer nanocomposites are a whole family of polymeric materials whose properties are capable of being tailored to meet specific applications. This ...

Fundamentals, Properties, and Applications of Polymer Nanocomposites

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Ultralight material withstands supersonic microparticle impacts

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Eight faculty members have been granted tenure in five departments across the MIT School of Engineering

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The first ever encyclopedia of composite materials has just been published online. Led by Professor Dermot Brabazon from DCU 's School of Mechanical and Manufacturing Engineering, the encyclopedia ...

Encyclopedia of composite materials an invaluable reference for engineers, architects and scientists

A glass-fiber-reinforced epoxy SMC for the battery housing contributes to an overall 10% weight reduction without adversely affecting mechanical performance or safety.

Lightweight, Low-Cost Battery System Developed for E-Mobility Applications

The researchers fabricated an ultralight material made from nanometer-scale carbon struts that give the material toughness and mechanical robustness. They tested the material's resilience by shooting ...

Nanoarchitected carbon material generates quite an impact

Singaporean researchers have developed an artificially inverted foam called AiFoam that could change the face of robotics.

Smart foam material enables robotic hand to self-repair

mechanical properties, fracture and plasticity; radiation-matter interactions; polymers and macromolecules; multiresolution and multiscale methods - microstructural evolution; new methods for ...

Advances in Materials Theory and Modeling – Bridging over Multiple-Length and Time Scales

DDD] today announced the availability of a breakthrough production-grade acrylate resin – Accura ® AMX™ Rigid Black. Designed for use with the company 's stereolithography (SLA) technology, this tough ...

3D Systems Introduces First Material for Long-Term Use Production Parts Manufactured with Stereolithography

"We chose graphene as our example material due to the general interest in tailoring its properties through structural engineering and because defected ... This may allow applications in catalysis and ...

Structural engineering on the atomic scale

The acrylate resin named Accura AMX Rigid Black offers exceptional resolution, accuracy and surface finish similar to that of injection-moulded parts, and is being capable of withstanding long-term ...

3D Systems launches SLA 3D printing material for long-term end-use parts

Incorporating nanomaterials into traditional cement improves water and fracture resistance. Forces of nature have been outsmarting the materials we use to build our infrastructure since we started ...

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New Smart Cement Invented for Building More Durable Roads and Cities

New strategic partnership between Swansea University and Diamond Light Source, supported by the Welsh Government, will help to address the challenges of global health and climate.

New technology and partnerships to aid scientists facing critical global challenges

Wrinkles are an inevitable structural deformation in 2D semiconductor materials ... excitonic properties has been impossible with conventional spectroscopic tools. "Recent strain-engineering ...

New study presents tip-induced nano-engineering of strain, bandgap, and exciton funneling in 2D semiconductors

To replicate the human sense of touch, the researchers infused the material with microscopic metal particles and added tiny electrodes underneath the surface of the foam.

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