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One of the distinct advantages of the FDTD method is that metals can be added to the material system via the Lorentz-Drude models.

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During the past ten years, the finite-difference ...

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Appendix A: Isoparametric Finite Element Approximations

Then, finite element method (FEM) based on the continuum plasticity-based damage model was performed to understand the damage propagation of the architected structure in compression load due to the ...

Damage-tolerant 3D-printed ceramics via conformal coating

A generalized two-cycle componentwise splitting method for solving three-dimensional parabolic differential equations with variable coefficients on multilayers. International Journal of Numerical ...

Incompressible Computational Fluid Dynamics

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I've had a few conversations over the years with people about the future of 3D printing. One of the topics that arises frequently is the slicer, the software that turns a 3D model into paths for ...

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Modeling Cable-Harness Effects on Spacecraft Structures

Finite zero-sum two-person games, keystone of

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the theory of games, now pose few problems that do not pertain to methods of computing optimal mixed ... made from a simplex but from an arbitrary convex ...

Contributions to the Theory of Games (AM-28), Volume II

A topological crystal in, for example, three dimensions is a real-space assembly of finite-sized pieces of topological states ... Ideally, to provide a useful complement to K-theory, these methods ...

Topological states from topological crystals

This essential guide to carbon debunks all the jargon around the element. It explains what it ... to keep global warming below the 1.5 degrees set out in the 2015 Paris Agreement.

The Dezeen guide to carbon

We simulate the physics numerically using methods such as finite element analysis (FEA) ... Knowing how to set up, run and modify advanced simulations requires significant expertise.

Prith Banerjee and Jamie J. Gooch from Ansys talk about daring to dream of Simulation's Reality in 2041

Each possible combination of materials can give rise to a unique set of structures ... of possible two-element combinations rises into the thousands. Only with computational

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methods can we ...

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The physical landscape along with the cultural, racial, and political landscapes will present a whole set of new challenges—some I'll ... The list of challenges may seem finite and easily prioritized ...

This year's new deans share their thoughts on their institutions and the path forward

This alone does not assure a bottom out of this hideous slide but it is an important element. Onus is on the ... setup is that my maximum profits are finite. This is a small price to pay for ...

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