

Comsol Optical Wave Simulation

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Comsol Optical Wave Simulation

Major factors affecting cogging torque include magnetic wave shapes ... of the model configuration using COMSOL Multiphysics®. Finally, specialized simulation applications will be used to ...

Reducing cogging torque in brushless motors

You will also get a live demonstration of the model configuration using COMSOL Multiphysics®. Finally, specialized simulation applications will be used to compare the performance of heat ...

Torque motors do the trick

"Our multiphysics solvers describe the physical universe digitally," explained Ian Campbell, CEO of OnScale which offers a SaaS engineering simulation ... Using optical coherence tomography (OCT), ...

The Cloud Lets Engineers Access Powerful Multiphysics Solvers

Vectorial optical ... surface plasmon wave. The excellent performance of realized meta-devices and the good agreement among the experimental results in the NIR regime, the simulations and ...

Efficient generations of complex vectorial optical fields with metasurfaces

The development of the optical spin Hall effect (OSHE) realizes the splitting of different spin components, contributing to the manipulation of photon spin angular momentum that acts as the ...

Selectively steering photon spin angular momentum via electron-induced optical spin Hall effect

Here, we introduce nonlinear near-field optical microscopy (NNOM), which is capable of real-time evanescent wave imaging by nonlinear wave mixing while using only standard optical components.

Real-time sub-wavelength imaging of surface waves with nonlinear near-field optical microscopy

The simulation and experiment has been performed to evaluate the validity of the theory. Although there exists some assumptions in the theory, the theory still has enough accuracy to guide the ...

Design approach of perforated labyrinth-based acoustic metasurface for selective acoustic levitation manipulation

Physics plays an important role in cancer research, and in helping to understand and treat the disease. To mark International Medical Physics Week, Graham Shaw discussed pioneering ultrasound research ...

International Medical Physics Week 2021 - how the ICR has pioneered ultrasound research to study and treat cancer

We use quantum electrodynamics to show how the particle's momentum uncertainty determines the optical coherence of the emitted light. We find that the temporal duration of Cherenkov radiation, ...

The coherence of light is fundamentally tied to the quantum coherence of the emitting particle

Presented annually by Lightwave, the Innovation Reviews program distinguishes top products and solutions available within the optical networking industry ... across the development lifecycle, in ...

Keysight's Arbitrary Waveform Generator and Lightwave Component Analyzer Recognized in 2020 Lightwave Innovation Reviews Program

(The figure shows a wave-optical simulation of the spectrometer at left, a microscope image of the fabricated spectrometer at center overlaid with the intensity distribution from the simulation, and ...

3D-printed spectrometer has a 100 × 100 square micron footprint

GUC successfully deployed the Cadence® Clarity™ 3D Solver to achieve a 5X system analysis speedup for a complex 112G long-reach network switch design.

Global Unichip Corporation Deploys Cadence Clarity 3D Solver To Achieve 5X Speedup of System Analysis for 112G Long-Reach Network Switch

In their study, the team performed computer simulations of neutron-star mergers that can reveal the effect of the nuclear physics of the stars on the gravitational waves. Studying these ...

Gravitational-wave scientists propose new method to refine the Hubble Constant—the expansion and age of the universe

Tailor Insight, the fintech market research organization, recently released a research report “WIMI Hologram Cloud Announces Its New Patented ...

WIMI Hologram Cloud Announces Its New Patented Product Holographic AR Head-mounted Display, Which Uses Sensors to Achieve Various Functions

The Patent covers technologies used in waveform generation and waveform generation processing equipment for optical ... simulation applications. Within the holographic AWG are the sine wave ...

WiMi Hologram Obtains a Patent for Optical Holography Waveform Generator to Accelerate LiDAR Industry Application of Its 3D Holographic Pulse LiDAR

Astronomers used Chandra to detect an important type of titanium in the supernova remnant Cas A. This titanium is predicted to form in bubbles that drive the explosion of a massive star after its fuel ...

How Do the Most Massive Stars Explode? Bubbles With Titanium Trigger Titanic Explosions

Compared to homogeneously polarized light beams, vectorial optical fields (VOFs) with tailored wave-fronts and inhomogeneous ... results in NIR regime, the simulations and analytical calculations ...

Efficient generations of complex vectorial optical fields with metasurfaces

RSD and slab waveguide algorithm technology to achieve ... the movement of the holographic exit pupil expander. Using optical simulation method algorithm modeling, dynamic calculation of hexagonal ...

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