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Advances in optical engineering for future telescopes

Researchers from The University of Arizona, Tucson, AZ, USA, led by Professor Daewook Kim, consider advancements in optical engineering for future telescopes, in a new publication from Opto-Electronic ...

Study Lists Telescope Advances to Expand Scientific Understanding of the Universe

About a decade ago, Federico Capasso at Harvard University (Cambridge, MA) wanted something more practical for optics. The success of flat 2D electronic integrated circuits inspired him to explore ...

Making metalenses practical

allowing the reader to develop their practical skills in this interdisciplinary field, and also explores the ways in which this knowledge can be applied to the design and production of commercial ...

A Practical Guide to Experimental Geometrical Optics

Technology advance could enable space-based atomic clocks, improving communications and GPS navigation. Although quantum technology has proven valuable for highly precise timekeeping, making these ...

New Cold Atom Source Technology Enables Portable Quantum Devices

These technical veterans are sharing practical insights ... understand the PCB design and fabrication nuances to avoid pitfalls in achieving useful first-time models. Hyper-scale data centers (HSDC) ...

Want to Learn about PCB Fab, Optical Transceivers, and Power Integrity?

Nevertheless, the practical realization of optical computing always has seemed to retreat over the horizon, while electronic computers became faster ... has developed a design based on fiberoptic ...

Optical Computing: Optics do not always compute

This concise, introductory book provides an overview of the subtle art of lens design. It covers the fundamental, optical theory, and the practical methods and tools employed in lens design, in a ...

Introduction to Lens Design

The reference models can be used to evaluate multicore design configuration options for SoC architecture exploration and support early software development before silicon prototypes are available.

Week In Review: Design, Low Power

Crestring the speed wave The modern optical module is a multi-disciplined marvel of engineering. Inside are high-speed electronics and leading-edge ... In parallel, test stand design and build are ...

Riding the 800G network tsunami with pluggable optical modules

3 Institute of Fundamental and Frontier Sciences, University of Electronic Science and Technology of China, Chengdu 610054, China. ↩↑ These authors contributed equally to this work. See allHide ...

Dynamic piezoelectric MEMS-based optical metasurfaces

Nevertheless, the existing explorations have been focused on optical functionalities that can be fulfilled by a single-layer device. One way to go beyond the current limit is to design cascaded ...

Beam steering angle expander with two liquid crystal polymeric diffractive optical elements

Algoritihms can help solve the necessary inverse design problem in the context of practical cloaking devices. These can be powerful tools to predict and analyze the optical responses of these devices ...

Bending light for safer driving: invisibility cloaks to come?

In The Optical Society (OSA) journal Optics Express, S. Ravenhall, B. Yuen and Foot describe work carried out in Oxford, U.K. to demonstrate a completely new design for a cold atom source.

New cold atom source lays groundwork for portable quantum devices

If it can be made to work in such a way that processors can be mass produced at a practical ... electronics, for which nonlinearities are a dime a dozen. But photons follow Maxwell's equations, which ...

Photonic computers: The future of computing is... analogue

Comprehensive laboratory-based course in electronic system design and analysis ... Gaussian beams are all considered. Design and use of practical optical systems including optical beam steering in ...

Electrical and Computer Engineering

DesignCon, the nation's largest event for chip, board, and systems design engineers ... "The growing adoption of electronic devices across the globe is prompting the need for engineers and ...

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