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Abstract. Process control in microelectronic manufacturing requires real-time monitoring techniques. Optical scatterometry, also referred to as optical critical dimension metrology, has become one of the most important techniques for critical dimension (CD) and overlay metrology in semiconductor manufacturing over the past decades

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due to its inherent noncontact, nondestructive, time-effective ...

Optical Scatterometry for Nanostructure Metrology ... We analyze nonlinear collective effects near surfaces of semi-infinite periodic systems with multi-gap transmission spectra and introduce a novel concept of multi-gap surface solitons as mutually trapped surface states with the components associated with different spectral gaps. We find numerically discrete surface modes in semi-infinite binary waveguide arrays which can support simultaneously ...

OSA | Surface multi-gap vector solitons
real part of wave number k for the TM SPP wave along the graphene is much larger than the wave number of free space, $k_0 = (\epsilon)^{1/2}$ (fig. SIA) (19). As a result, such a SPP surface wave is tightly confined to the graphene layer, with guided wavelength (λ) much smaller than free space wavelength (λ_0), whereas its imaginary part of wavenumber is

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Describes how laser radiation propagates in natural and artificial materials and how the state of radiation can be controlled and manipulated (phase intensity, polarization) by various means. New concepts and

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The 60th anniversary edition of this classic and unrivalled optics reference work includes a special foreword by Sir Peter Knight.

A complete basic undergraduate course in modern optics for students in physics, technology, and engineering. The first half deals with classical physical optics; the second, quantum nature of light. Solutions.

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Written primarily for advanced undergraduate and masters level students in physics, this text includes a broad range of topics in applied quantum optics such as laser cooling, Bose-Einstein condensation and quantum information processing.

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Observation of the Body, Mind and Complexion 1.

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37. BOdy 38. CHest And Abdomen 39. LImbS 40.

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Why is the Brazilian rainforest vanishing so quickly? And why is it essential to the whole world? This story describes how a native tribe is battling potential developers. Can a solution be found that will protect the forest and allow the tribe to continue living as they always have done, while benefiting from limited development? Ages 7 and up

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