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This course provides an introduction to optical science with elementary engineering applications. Topics covered in geometrical optics include: ray-tracing, aberrations, lens design, apertures and stops, radiometry and photometry. Topics covered in wave optics include: basic electrodynamics, polarization, interference, wave-guiding, Fresnel and Fraunhofer diffraction, image formation ...

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There are several situations in optics where one is interested in a complex angle, $\theta = \theta_1 + i\theta_2$ where θ_1 and θ_2 are real numbers. For example, the solution to the wave equation when absorption or amplification takes place contains an exponential with a complex argument. In this case, the imaginary part of θ introduces exponential decay or growth as is apparent

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Since $\frac{\partial^2 \psi}{\partial x^2} + \frac{\partial^2 \psi}{\partial y^2} = 0$, this function is a solution of the wave equation. However, $\psi(x, 0) = A_0 y$ is unbounded, so cannot represent a localized wave profile. 2.32

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Wave Optics. To explain some phenomena, such as interference and diffraction of light, it is necessary to go beyond geometrical optics. Huygens' principle. Huygens considered light to be a wave. He envisioned a wave crest advancing by imagining each point along the wave crest to be source point for small, circular, expanding wavelets, which ...

Chapter 2 Solutions
Problems and solutions Session 1. Electromagnetic waves 940824:2 A poor student in physics is performing calculations on a problem where the wave equation describing the propagation of light is involved. He/She ends up with a solution where the D- and E-field is not in phase with each other, but has a small phase difference ($\Delta \phi = 1$...

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conditions set down for a wave. Since $\frac{\partial^2 \psi}{\partial x^2} + \frac{\partial^2 \psi}{\partial y^2} = 0$, this function is a solution of the wave equation. However, $\psi(x, 0) = A_0 y$ is unbounded, so cannot represent a localized wave profile. 2.32 k = 3.106 m⁻¹, 9.1014 Hz, /k = 3.108 m/s. 2.33 /

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