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6. Chapter 2 Solutions. 2.39 (a) $(y, t) \exp[(ay - bt)^2]$, a traveling wave in the y direction, with speed ω/k b/a. (b) not a traveling wave.

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Thus $\psi(y, t) = A \exp[i(a - by - ct)^2]$ is a solution of the wave equation with $v = c/b$ in the + y direction. 2.6×10^9 (0.003) (2.54 $\times 10^2$ /580 $\times 10^9$) \times number of waves $\times 131$, $c = 3 \times 10^8$, $\lambda = c/v = 3 \times 10^8$...

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Wave Optics Wave front The wave front at any instant is defined as the locus of all the particles of the medium which are in the same state of vibration. Or An imaginary surface passing through particles oscillating with same phase is known as wavefront A point source of light at a finite distance in an isotropic medium emits a spherical wave front (Fig a). A point source of light in an ...

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This is the companion solution manual for the Fluids and Waves textbook. Each chapter contains both a copy of the problems as they appear in the Fluids and Waves text book followed by detailed, worked solutions for each of the problems. In this way the text can be used as a standalone book of worked exercises should the reader not wish to use it with the Fluids and Waves textbook. The book contains the following chapters which match those in the main textbook: Mathematics - Complex numbers, complex exponentials, partial derivatives, experimental uncertainties. Elasticity - Stress, strain, moduli of elasticity, bulk stress, strain and modulus Fluid Statics - pressure, Pascal's law, measuring pressures, Archimedes' principle Fluid Dynamics - continuity equation, Bernoulli's equation, Torricelli's law, viscosity, Poiseuille's law, Stokes' law Oscillations - simple harmonic motion, simple and compound pendulums, damped harmonic motion, driven oscillators Waves -

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types of waves, mathematical description of a wave, waves on a string, acoustic waves, wave power and intensity
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Light Waves - basic geometric optics, Huyghens' principle, dispersion, polarization, thin film interference, diffraction
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Fundamentals of Optical Waveguides is an essential resource for any researcher, professional or student involved in optics and communications engineering. Any reader interested in designing or actively working with optical devices must have a firm grasp of the principles of lightwave propagation. Katsunari Okamoto has presented this difficult technology clearly and concisely with several illustrations and equations. Optical theory encompassed in this reference

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