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### Electromagnetic Waves Optics And Modern

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Application of EM waves. OPTICS:- Reflection and refraction of light at a plane and spherical surfaces, mirror formula, total internal reflection and its applications, deviation and dispersion of light by a prism, lens formula, magnification, power of lenses in contact, microscope and astronomical telescope ( reflecting and refracting) and their magnifying powers.

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Honors modern physics, electromagnetic waves and optics Instructor: • Prof. Daniel Kasen (kasen@berkeley.edu) • Prof. Office hours: Monday 10-11 AM in 355 Campbell Hall • Thursday 11-12 AM in 355 Campbell Hall • GSI: Zach Stone (stone@berkeley.edu)

## Honors modern physics, electromagnetic waves and optics

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(x) Intensity of electromagnetic wave is defined as energy crossing per unit area per unit time perpendicular to the directions of propagation of electromagnetic wave. (xi) The intensity  $I$  is given by the relation,  $I = \langle \mu \rangle c = 1/2 \epsilon_0 E^2_0 c$  (xii) The existence of electromagnetic waves was confirmed by Hertz experimentally in 1888 ...

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## Catenary Functions Meet Electromagnetic Waves ...

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## University Physics - Wikipedia

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Electromagnetic waves are directed along the direction at the angle of refraction,  $\theta_{air}$ . In this situation, waves propagate freely in the forms of guided substrate modes within the slab and radiation fields in the air, as shown in Figure 1c 1. 2. Surface wave modes: as the angle of incidence  $\theta_i$  increases and reaches the critical angle  $\theta_i = \theta_{i-air}$ , the

## Modeling and design for electromagnetic surface wave devices

Optics usually describes the behaviour of visible, ultraviolet, and infrared light. Because light is an electromagnetic wave, other forms of electromagnetic radiation such as X-rays, microwaves, and radio waves exhibit similar properties. Most optical phenomena can be accounted for by using the classical electromagnetic description of light.

### **Optics - Wikipedia**

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Maxwell's wave equation showed that the speed of the waves, labeled  $c$ , is determined by a combination of constants in the laws of electrostatics and magnetostatics—in modern notation: where  $\epsilon_0$ , the permittivity of free space, has an experimentally determined value of  $8.85 \times 10^{-12}$  square coulomb per newton square metre, and  $\mu_0$ , the magnetic permeability of free space, has a value of  $1.26 \times 10^{-6}$  newton square seconds per square coulomb.

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