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King (Author), Margaret  
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Overview. The propagation of waves along and across the boundary between two media with different characteristic velocities is much more complicated when the source is on or near the boundary than when it is far away and the incident waves are plane. Examples of waves generated by localized sources near a boundary are the electromagnetic waves



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from the currents in a dipole on the surface of the earth and the seismic waves from a slip event in a fault in the earth's crust like the San Andreas ...

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[Ronold W P King;

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Margaret Owens; Tai  
Tsun Wu] -- This work,  
starting from a  
coverage of  
electromagnetic  
surface waves, goes on  
to introduce the  
unusual properties and  
useful applications of  
lateral waves,  
particularly the case of  
dipoles on the ...

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Abstract: Lateral electromagnetic waves along a plane boundary between homogeneous half-spaces are reviewed. The electromagnetic fields generated by vertical and horizontal electric dipoles near the boundary between air and the earth (salt or fresh water, soil, ice, etc.) are summarized in terms of a new unified theory of lateral-wave propagation.

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## **Lateral electromagnetic waves along plane boundaries: A ...**

Abstract: The propagation of lateral electromagnetic waves and pulses on microstrip is investigated.

Interference patterns generated by the superposition of the lateral and direct waves along the air-substrate surface are

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shown. The field generated by the pulse excitation of a horizontal dipole on the air-substrate boundary is shown to consist of a lateral-wave pulse and a slower direct-wave ...

## **Lateral electromagnetic waves and pulses on open ...**

Later on, the simultaneous, but separate discoveries made by Michael

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Faraday and Joseph Henry concerning electromagnetic induction in the 1830's led to the theory of James Clerk Maxwell, which united electricity, magnetism, and optics into one grand theory of light: the explanation of electromagnetic waves.

## **Electromagnetic Waves: Origin and Theory - Science**

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Electromagnetic waves are shown by a sinusoidal graph. It consists of time-varying electric and magnetic fields which are perpendicular to each other and are also perpendicular to the direction of propagation of waves. Electromagnetic waves are transverse in nature.

**Electromagnetic**



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## **Waves - Definition, Equation and ...**

It alternates in direction (red for up, blue for down) making a wave, and carries with it a magnetic field and electromagnetic energy. The electromagnetic wave disturbs the electric field at any point through which it passes. It therefore moves the charges in the metal loop, causing a current.

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## **Electromagnetic Theory - James Clerk Maxwell Foundation**

Lateral waves are the electromagnetic waves which are generated by vertical or horizontal dipoles on/or near the plane boundary between two electrically different media like air and earth or air and sea or ocean water. However, the lateral wave propagates from the

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antenna to the

## **Lateral Waves near the Surface of Sea**

This term represents a lateral wave which we shall discuss below first for the problem of spherical-wave reflection from a homogeneous halfspace, and then for more general sound sources and complicated ... “Lateral Waves”, in

Electromagnetic Wave

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Theory, Proc. Symp.  
Delft, the Netherlands,  
Sept. 1965, Vol. 1 ( )  
Pergamon, London ...

## **The Lateral Wave | SpringerLink**

Lateral  
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Author: Ronold W P  
King; Margaret Owens;

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Tai Tsun Wu. Publisher:

New York, NY:

Springer New York,

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Summary: The

propagation of waves

along and across the

boundary between two

media with different

characteristic velocities

is much more

complicated when the

source is on or near

the boundary than ...

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## **Lateral Applications - Electromagnetic Waves : Theory and Applications to ...**

The surface plasmon polariton (SPP) is an electromagnetic surface wave that can travel along an interface between two media with different dielectric constants. It exists under the condition that the permittivity of one of the materials forming

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the interface is negative, while the other one is positive, as is the case for the interface between air and a lossy conducting medium below the plasma ...

## **Surface wave - Wikipedia**

Electromagnetic Wave Theory is a theory in chemistry that was developed by James Clark Maxwell in 1864. According to this

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theory, there are several points about radiation emitted from a substance. These points are as follows:  
Energy emits from any source continuously in the form of radiant energy.

## **Difference Between Electromagnetic Wave Theory and Planck ...**

A linearly polarized sinusoidal electromagnetic wave,



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propagating in the direction  $+z$  through a homogeneous, isotropic, dissipationless medium, such as vacuum. The electric field ( blue arrows) oscillates in the  $\pm x$ -direction, and the orthogonal magnetic field ( red arrows) oscillates in phase with the electric field, but in the  $\pm y$ -direction. In physics,

electromagnetic

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radiation ( EM radiation or EMR) refers to the waves (or their quanta, photons) of the electromagnetic field

...

## **Electromagnetic radiation - Wikipedia**

International Series of  
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Electromagnetic  
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Electromagnetic Wave  
Theory, Part 1 covers  
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International Scientific

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Radio Union (U.R.S.I.)  
Symposium on  
Applications to  
Electromagnetic Wave  
Theory. The book  
contains 61 chapters  
that are organized into  
three sections.

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