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Main directions of electromagnetic waves from solar-powered communication cabinets

EM waves travel in straight lines, unless acted upon by some outside force. They travel faster through a vacuum than through any other medium. As EM waves spread out from the point of origin, they ...

The new approach consists of an appliance for the conversion of solar radiation energy into electric energy with at least one solar cell. The electrically conductive contacts of the solar cell are used ...

When a direct current (DC) of electricity, for example from a flashlight battery, is applied to a wire or other conductor, the current flow builds an electromagnetic field around the wire, ...

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In the present work, we have shown that the effect of various solar activities that effects the electron densities of the ionosphere and how they affect our telecommunication system. During...

The receiving antenna collects the electromagnetic waves and routes the signal to the receiver, which then demodulates the wave and converts the electrical signals back into the original ...

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This paper examines the role of EM waves in modern communications, exploring their properties, principles of propagation, and extensive applications in diverse areas, including radio and...

Charged particles interact with the solar plasma and magnetic fields to create radio waves from the Sun. In nonthermal events, accelerated electrons excite plasma waves, which then ...

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