

In this study, an antenna with transparent super wideband CPW technology has been designed and built with the combination of solar panels for use in wireless communication equipment ...

This enables the UWB antenna to transmit and receive signals wirelessly on both sides of the glass of buildings and windows of homes. This is the first time a transparent UWB antenna capable of ...

Abstract The solar cell integrated transparent antenna will serve the purpose of power generation as well as an antenna for satellites and can act as an asset to expand the possibilities of ...

Some comparative studies have been performed on transparent and meshed antennas, showing that transparent antennas can be easily manufactured and mounted on the solar panel anywhere and ...

Traditional low-gain antennas have limited communication capability. For higher gain design, today's approach is either a de-ployed dish or integration of the antennas on the backside of a solar panel.

This paper presents the design of an antenna dedicated to cohabiting with photovoltaic cells of solar panels. The proposed broadband solution uses stacked aperture-fed patches with a solar cell as an ...

A single-port dual-band antenna integrated with solar cells is reported for the 2.4/5-GHz wireless local area network (WLAN) applications. Thirty solar cells are adopted and integrated into ...

Solar energy can function as an antenna by utilizing photovoltaic cells that absorb electromagnetic radiation. When designed appropriately, these cells can be configured to capture ...

PDF | The integration of slot antennas in a class of commercial photovoltaic (PV) panels is addressed.

Measurements were performed to validate both antennas' and solar panels' functionality and the results are outstanding when compared to the antenna design data and solar cells' specifications. This ...

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