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# Transparent and Nontransparent Microstrip Antennas on a CubeSat

*Novel low-profile antennas for CubeSats improve mission reliability.*

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This article reviews the development of some novel low-profile antennas for CubeSats. The integrated antennas were developed using microstrip-antenna technology, and the antennas were designed to be low profile while having minimal (or zero) blockage of the solar panels on the CubeSat. Two types of designs were investigated: 1) transparent antennas, which are placed above the solar panels (supersolar) and 2) nontransparent antennas, which are placed below the solar panels (subsolar). For

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**Roman Wölfel**



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