

Multimodal Annular Ring GNSS ADS Antenna (Technion)

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There are many approaches to determining the attitude (orientation in 3D space) or direction (2D space) of an object. However, known solutions, such as gyroscopes and interferometry between GPS antennas, compromise between the compactness of the system, accuracy of the measurements, poll rate and cost. The proposed antenna is a low-cost, relatively compact solution, requiring about half the space for equivalent accuracy when compared to interferometric systems. This invention provides both attitude determination as well as true-north determination for applications that are space limited and require instantaneous accuracy.

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