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**Title** Determination of Optimal Antenna Location on Aircraft Structures

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**Remarks**

**Keywords** Computational Electromagnetics, Civil Aviation; Aircraft Antennas. Massively Parallel Algorithms & Computing

**Abstract** Development of a massively parallel algorithm by the application of Geodesic Constant Method to determine the radiation pattern of antennas located arbitrarily on aircraft. This involves simulation of the effect of the various antenna locations on the aircraft to compute the antenna characteristics and hence enable determination of the optimal antenna location for the various aircraft antennas.