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Abstract:

An efficient method for integrating genetic algorithm (GA) with method of moments for capacitive patch antenna design has been presented. The movement of capacitive patch within the antenna model and its length are controlled by GA in the search of the best electrical characteristics that satisfy/close to the fitting value. Method demonstrates the design of antenna and manipulation of the electrical specification of the design antenna. Antenna model was formed by right angle triangle wire grid model.

Keywords: antenna , propagation , measurement