

Abstracts

Design of multiband microstrip antennas using a genetic algorithm

*H. Choo and H. Ling. "Design of multiband microstrip antennas using a genetic algorithm." 2002 *Microwave and Wireless Components Letters* 12.9 (Sep. 2002 [MWCL]): 345-347.*

A genetic algorithm (GA) is used to design patch shapes of microstrip antennas for multiband operations. For dual-band operation, the optimized patches show that arbitrary frequency spacing ranging from 1:1.1 to 1:2 can be achieved. Tri-band and quad-band microstrip shapes are also generated and the resulting designs show good operations at the designated frequencies. All results were verified by laboratory measurements on an FR-4 substrate.

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