

Concurrent implementation of the complementary operators method in 2-D space

O.M. Ramahi. "Concurrent implementation of the complementary operators method in 2-D space." 1997 Microwave and Guided Wave Letters 7.6 (Jun. 1997 [MGWL]): 165-167.

The author presents a novel implementation of the complementary operators method (COM). In contrast to the original implementation of COM, in this approach, the complementary operators are applied concurrently on a set of fields in the boundary region. This not only allows the cancellation of first-order reflections, but the reduction of all subsequent reflections as well. A numerical example is given to validate this new scheme and to show that it results in unprecedented suppression of artificial reflections.

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