

Abstracts

A new temporal basis function for the time-domain integral equation method

Jin-Lin Hu, C.H. Chan and Yuan Xu. "A new temporal basis function for the time-domain integral equation method." 2001 Microwave and Wireless Components Letters 11.11 (Nov. 2001 [MWCL]): 465-466.

A new temporal basis function that has all-order continuous derivative has been constructed using a nonlinear optimization scheme. This new basis function provides a much more stable explicit marching-on-in-time (MOT) solution, based on the time-domain integral equation (TDIE) method, than that presently available. Two examples are presented to illustrate the superior stability of the proposed temporal basis function.

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