

# The complex Jacobi iterative method for three-dimensional wide-angle beam propagation: erratum

Khai Q. Le<sup>1\*</sup>, R. Godoy-Rubio<sup>2</sup>, Peter Bienstman<sup>1</sup> and G. Ronald Hadley<sup>3</sup>

<sup>1</sup> *Department of Information Technology, Ghent University-IMEC, St-Pietersnieuwstraat 4, B-9000 Ghent, Belgium*

<sup>2</sup> *Departamento de Ingeniería de Comunicaciones, University of Malaga, 29071, Spain*

<sup>3</sup> *Sandia National Laboratories, Albuquerque, NM 87185 USA*

\*Corresponding author: [khai.le@intec.ugent.be](mailto:khai.le@intec.ugent.be)

**Abstract:** An erratum is presented to correct the definition of coefficient  $\xi^*$  in Eq. (12) in our paper.

©2008 Optical Society of America

**OCIS codes:** (000.4430) General: Numerical approximation and analysis; (220.2560) Optical design and fabrication: Propagating methods; (350.5500) Other areas of optics: Propagation.

## References and Links

1. K. Q. Le, R. Godoy-Rubio, P. Bienstman, and G. R. Hadley, "The complex Jacobi iterative method for three-dimensional wide-angle beam propagation," *Opt. Express* **16**, 17021-17030 (2008).

In Eq. (12) of our original paper [1] we wrote:

$\xi^*$  is the complex conjugate of  $\xi$  where

$$\xi = \frac{1}{4k^2(1 + i\beta/2)} - \frac{i\Delta z}{4k}.$$

However, the correct definition of  $\xi^*$  is

$$\xi^* = \frac{1}{4k^2(1 + i\beta/2)} + \frac{i\Delta z}{4k}.$$

Still, all calculations in [1] were performed using the correct formula.