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Finite Element Time-Domain Body-of-Revolution Maxwell Solver based on Discrete Exterior Calculus

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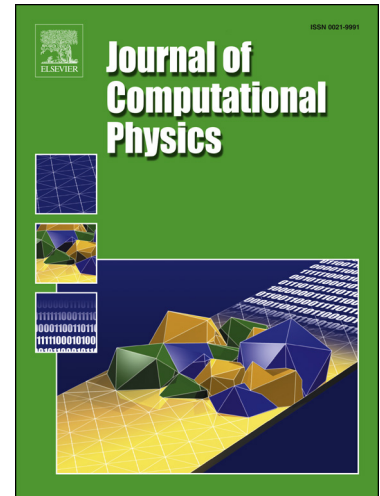
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Highlights

- We presented a new finite-element time-domain Maxwell solver for body-of-revolution geometries.
- The solver enables the use of a Cartesian 2-D code with no modifications necessary except to accommodate anisotropic media.
- The proposed solver does not require any modifications on the basis functions adjacent to the symmetry axis.
- The new Maxwell solver is illustrated in a number of problems involving electromagnetic fields in cylindrical structures.

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