



# Simulating Electromagnetic Wave Propagation Through Anisotropic Uniaxial Plate: For Normal Incidence With Coordinate-Free Approach

*Ibrahim Ibrahim*

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- Reflection and transmission of plane waves propagating in lossless, nonmagnetic and unbounded isotropic media through a plate of lossless, nonmagnetic and bounded homogeneous uniaxial media.
- Static simulation of a transmitted RC (2) pulse, through a uniaxial plate, were generated.
- The thesis presents the unique Coordinate-free approach in its application.
- Only Normal Incidence condition were met.
- All final equations, after being formulated and derived in another thesis, were completely included here.
- Theoretical analysis were the base onto which the application was modeled; no numerical analysis were needed after using Matlab.
- Suitable for both, Engineers and Physicists.
- Theoretical foundation is based on "Theory of Electromagnetic Waves", by Hollis C. Chen.

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