

## Geometrical Theory Of Diffraction IEEE Electromagnetic Waves Series

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[A uniform geometrical theory of diffraction .... - IEEE Xplore](#)

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Abstract: Keller introduced his Geometrical Theory of Diffraction (GTD) in the 1950s. The Geometrical Theory of Diffraction development was revolutionary, in that it explained the phenomena of wave diffraction entirely in terms of rays for the first time, via a systematic generalization of Fermat's principle. In its original form, the Geometrical Theory of Diffraction exhibited singularities at and near ray-shadow boundaries and caustics.

[The Uniform Geometrical Theory of Diffraction and Some of...](#)

A geometrical theory of diffraction model for on-body propagation is developed in this paper. The exact solution to the canonical problem of a plane wave i Geometrical Theory of Diffraction Formulation for On-Body Propagation - IEEE Journals & Magazine

[Geometrical Theory of Diffraction Formulation for On-Body ...](#)

Abstract: A uniform geometrical theory of diffraction (UTD) ray analysis is developed for analyzing the problem of electromagnetic (EM) scattering by vertices at the tip of a pyramid formed by curved surfaces with curvilinear edges when illuminated by an arbitrarily polarized astigmatic wavefront. The UTD vertex diffraction coefficient involves various geometrical parameters such as the local radii of curvature of the faces of the pyramid, of its edges, and of the incident ray wavefront, and ...

[A Uniform Geometrical Theory of Diffraction for Vertices...](#)

The diffraction coefficients are calculated by first using the PO approximation which consists of calculating the total field on the surface of an object from the incident field according to the laws of geometrical optics, and then calculating the scattered field by employing this total surface field in a vector diffraction integral.

[A physical optics version of the geometrical theory of ...](#)

Fundamentals of the geometrical theory of diffraction is reported. GTD is an extension of geometrical optics (GO). They divide in two groups [11]: the GO laws in boundless media where they allow the construction of rays and wavefronts and the calculation of the field and its polarisation along the ray, and the laws of field transformation in reflection and refraction.

[IET Digital Library: Geometrical Theory of Diffraction](#)

Abstract: A tutorial account of the geometrical theory of diffraction is presented, and as an application of the theory the near field of a circular aperture antenna is calculated. This method is useful in calculating quite accurately the field in regions far from the antenna axis. The method finds appeal in its simple mathematical formulation which lends itself to obtaining numerical results ...

[Calculation of Near Field of .... - ieexplore.ieee.org](#)

Geometrical theory of diffraction (GTD) is an alternative model of diffraction propounded first by Thomas Young in 1802. GTD has a long history of nearly 150 years over which many eminent people enriched this model which has now become an accepted

[Geometrical theory of diffraction](#)

Electromagnetic wave propagation modeling in a complex environment using uniform geometrical theory of diffraction Abstract: In this paper, propagation mechanisms in a confined complex environment are experimentally investigated and modeled at 10 GHz. A campus student's lockers room is chosen as a propagation environment.

[Electromagnetic wave propagation .... - ieexplore.ieee.org](#)

The model uses geometrical theory of diffraction expressions for a lossy dielectric material, which is a much better approximation of the human body than the perfect electric conductor approximation often used. The model is validated for the industrial, scienti fi c and medical band at 2.45GHz.

[Ear-to-Ear Propagation Model based on Geometrical Theory ...](#)

geometrical theory of diffraction gtd is an alternative model of diffraction propounded first by thomas young in 1802 gtd has a long history of nearly 150 years over which many eminent people enriched this model which has now become an accepted Geometrical Theory Of Diffraction For Electromagnetic