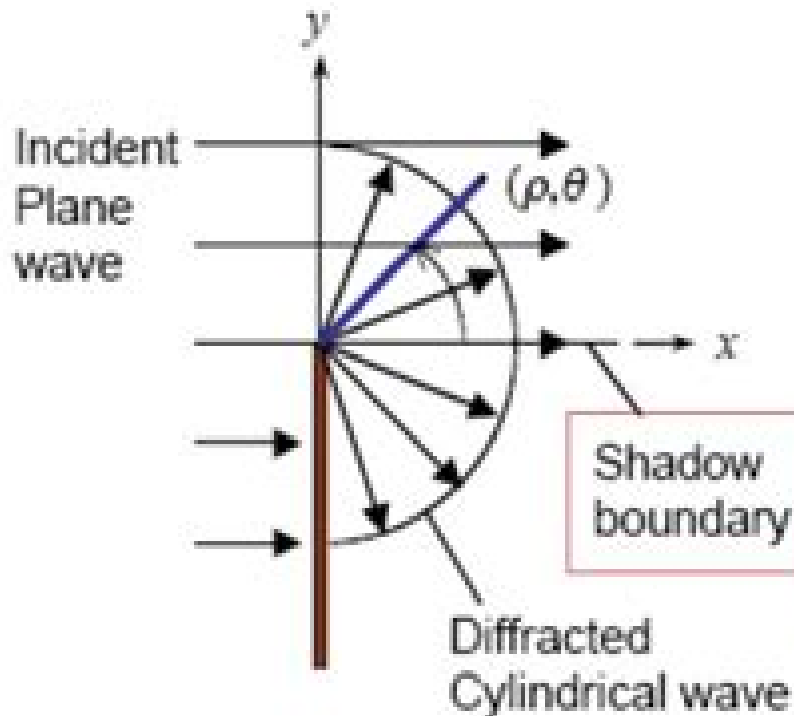
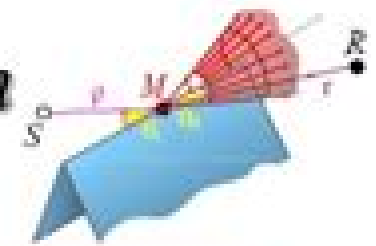


GTD – Geometrical Theory of Diffraction



Total field

$$E_{GTD} = E_{G0}U(\theta) + E_D$$

Incident plane wave

$$E_{G0} = E_0 e^{-j k x}$$

Diffracted wave

$$E_D = E_0 e^{-j \pi / 4} \frac{e^{-j k \rho}}{\sqrt{\rho}} D(\theta)$$

$$D(\theta) = \frac{-1}{\sqrt{2 \pi k}} \frac{1 + \cos \theta}{2 \sin \theta}$$

GTD is not valid near the shadow boundary $\theta = 0$ where $D(\theta) = \infty$.

Geometrical Theory Of Diffraction

**Eugene F. Knott, John F.
Schaeffer, Michael T. Tulley**



Geometrical Theory Of Diffraction:

Geometrical Theory of Diffraction for Electromagnetic Waves Graeme L. James, 1986 The purpose of the book apart from expounding the Geometrical Theory of Diffraction GTD method is to present useful formulations that can be readily applied to solve practical engineering problems Introduction to the Uniform Geometrical Theory of Diffraction Derek A. McNamara, 1990-01-01 *Geometrical Theory of Diffraction* Vladimir Andreevich Borovikov, Boris Evseevich Kinber, 1994 This book details the ideas underlying geometrical theory of diffraction GTD along with its relationships with other EM theories *An Introduction to the Geometrical Theory of Diffraction* P. L. Christiansen, DTH., LEF., 1971 *An Application of the Geometrical Theory of Diffraction to the Scattering of Radio Waves by Irregular Terrain* R. H. Ott, 1968 **The Modern Geometrical Theory of Diffraction** The Ohio State University Columbus. ElectroScience Laboratory. Department of electrical engineering, **Geometrical Theory of Diffraction** Joseph Bishop Keller, 1962 **A Geometrical Theory of Diffraction** Joseph Bishop Keller, 1958 *Uniform Geometrical Theory of Diffraction*, 1987 Keller's geometrical theory of diffraction GTD represents a major breakthrough in solving a wide variety of electromagnetic EM radiation and scattering problems at high frequencies In particular the GTD is an extension of geometrical optics to include a class of diffracted rays via a generalization of Fermat's principle These diffracted rays are initiated for example from geometrical and electrical discontinuities in a scatterer or from points of grazing incidence on smooth convex parts of the scattering surface However being a purely ray optical theory the original GTD is overcome via the uniform version of the GTD i.e. UTD which requires the diffracted field to make the total high frequency field continuous across the optical shadow boundaries The UTD solutions for the diffraction by edges and smooth convex surfaces are reviewed in detail after introducing the basic concepts of GTD Results based on a few additional UTD solutions are also presented together with a few selected applications of these UTD solutions to predict the EM radiation and scattering from complex structures Time Domain Version of the Uniform Geometrical Theory of Diffraction Paul R. Rousseau, 1995 **Principles of Radar and Sonar Signal Processing** Chevalier François Le, 2002 On the Geometrical Theory of Diffraction with Application to the Electron Beam K. Hans B. Wilhelmsson, 1960 *Introduction to the Uniform Geometrical Theory of Diffraction* Derek A. McNamara, **Radiation and Scattering of Waves** Leopold B. Felsen, Nathan Marcuvitz, 1994-01-15 As relevant today as it was when it was first published 20 years ago this book is a classic in the field Nowhere else can you find more complete coverage of radiation and scattering of waves The chapter Asymptotic Evaluation of Integrals is considered the definitive source for asymptotic techniques This book is essential reading for engineers physicists and others involved in the fields of electromagnetics and acoustics It is also an indispensable reference for advanced engineering courses **Application of the Geometrical Theory of Diffraction to Closed Cracks** Gert Persson, 1991 **The Modern Geometrical Theory of Diffraction** Ohio State University. ElectroScience Laboratory, Classical and Modern Diffraction Theory Kamill Klem-Musatov, Henning C.

Hoeber, Tijmen Jan Moser, Michael A. Pelissier, 2016-06-30 Providing geophysicists with an in depth understanding of the theoretical and applied background for the seismic diffraction method Classical and Modern Diffraction Theory covers the history and foundations of the classical theory and the key elements of the modern diffraction theory Chapters include an overview and a historical review of classical theory a summary of the experimental results illustrating this theory and key principles of the modern theory of diffraction the early cornerstones of classical diffraction theory starting from its inception in the 17th century and an extensive introduction to reprinted works of Grimaldi Huygens and Young details of the classical theory of diffractions as developed in the 19th century and reprinted works of Fresnel Green Helmholtz Kirchhoff and Rayleigh and the cornerstones of the modern theory including Keller s geometrical theory of diffraction boundary layer theory and super resolution Appendices on the Cornu spiral and Babinet s principle are also included *On the Geometrical Theory of Diffraction with Application to the Electron Beam*, 1960 **Comparative studies of diffraction processes in the geometrical theory of diffraction** Peter L. Christiansen, 1975 **Radar Cross Section** Eugene F. Knott, John F. Schaeffer, Michael T. Tulley, 2004-06-30 The leading text and reference on radar cross section RCS theory and applications this work presents a comparison of two radar signal strengths One is the strength of the radar beam sweeping over a target the other is the strength of the reflected echo senses by the receiver This book shows how the RCS gauge can be predicted for theoretical objects

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