



# Fresnel Zones in Wireless Links, Zone Plate Lenses and Antennas

*Hristo D. Hristov*

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## **Fresnel Zones in Wireless Links, Zone Plate Lenses and Antennas** Hristo D. Hristov

A survey of Fresnel zones in microwave/millimeter-wave electromagnetics, this work covers theory, design and practical applications. It includes a detailed description of the application of Fresnel zones to microwave wireless communication links as well as a description of the state-of-the-art in newly created zone plate lens and antenna technologies. It also contains an overview of the basic electromagnetic equations for time harmonic fields, and a treatment of the Fresnel-Kirchoff diffraction theory. This resource should help the reader to understand Fresnel zones, zone plate devices and their practical uses, in particular the analysis and design of microwave communication links, Fresnel zone antennas for DBS, Fresnel zone plate lenses for radio telescopes, and conformal curvilinear zone plate antennas.

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