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physical optics formulation. PO Hybrid regions HFSS models are growing in complexity and fidelity as compute resources become more readily available. For example, HFSS is being used to model installed antenna performance including things like feeding networks and reflector systems, rather than simply modeling the antenna in free space.

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ANSYS HFSS Physical Optics Solver HFSS offers a physical optics (PO) solver as part of the IE solver. In PO, a radiation source is used to illuminate the geometry, thus inducing PO currents that then reradiate. This asymptotic method is extremely useful when solving very large electromagnetic radiation and scattering problems. Applications include large reflector [...]

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[HFSS Physics Optics - Ozen Engineering and ANSYS](#)

antennas or reflector antennas. Due to the large radius of curvature of the antennas, quasi-optical techniques such as the physical optics approximation can be used to ascertain the radiation field of the antenna. Ray optics can be used to gain physical insight. Edge diffraction from the edge of the parabolic

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We use a combination of conformal and quasi-conformal mappings to engineer isotropic electromagnetic devices that modify the omnidirectional radiation pattern of a point source. For TE waves, the designed devices are also non-magnetic. The flexibility offered by the proposed method is much higher than that achieved with conformal mappings. As a result, it is shown that complex radiation ...

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He previously was principal engineer at Lockheed Martin Astronautics, where he specialized in microwave antenna design and analysis. Mr. Milligan is the author of the first edition of Modern Antenna Design and coauthor of Antenna Engineering Using Physical Optics.

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Physical Optics Solver. Physical optics (PO) solver in Antenna Toolbox™ allows you to solve for the RCS of an object.. In physical optics, the incident field is used to calculate the currents on the surface of the structure in response to the impinging plane wave.

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