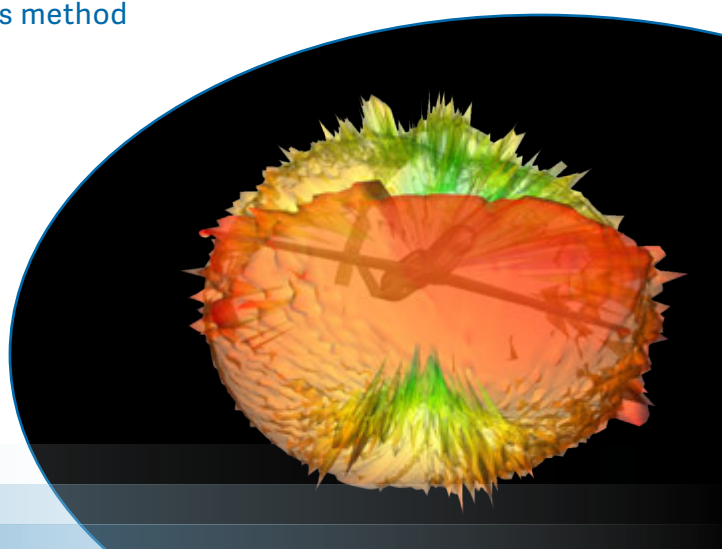
XGtd® Far Zone Radiation, RCS, and EMI/EMC for Electrically-Large Platforms

XGtd is a general purpose ray-based electromagnetic analysis tool for assessing the effects of a vehicle or vessel on antenna radiation, predicting coupling between antennas, and predicting radar cross section (RCS). It is ideally suited for applications with higher frequencies or very large platforms where the requirements of a full physics method may exceed available computational resources.

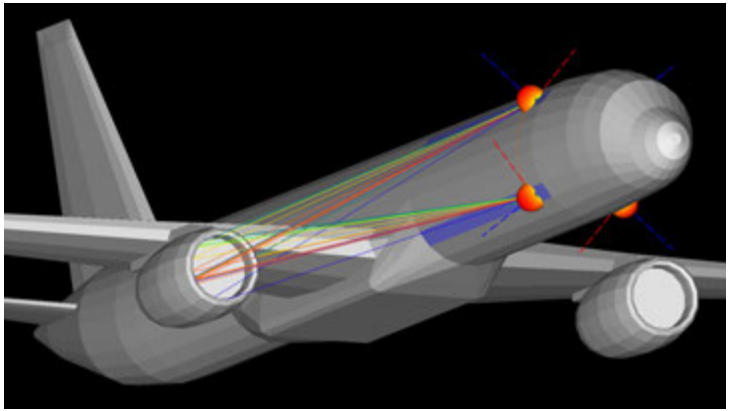
Applications:

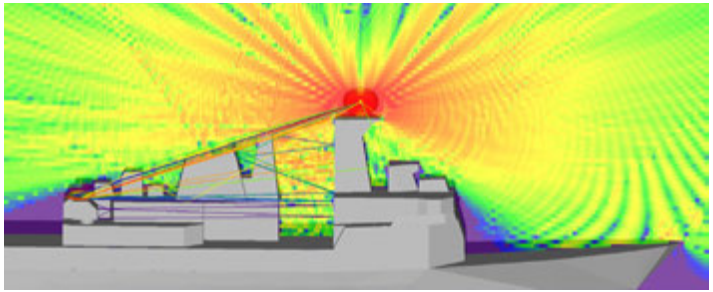
- Antenna Radiation from Platform-Mounted Antennas
- Radar Cross Section (RCS)
- Co-Site Analysis
- Anechoic Chamber Simulation



Computational Methods:

- Ray tracing methods: Shooting and bouncing ray and image theory
- E-field evaluations using UTD, GO, PO, and MEC
- High-fidelity field predictions in shadow zones including creeping wave effects
- Multipath calculations including reflections, transmissions, wedge diffractions, surface diffractions, and creeping waves





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