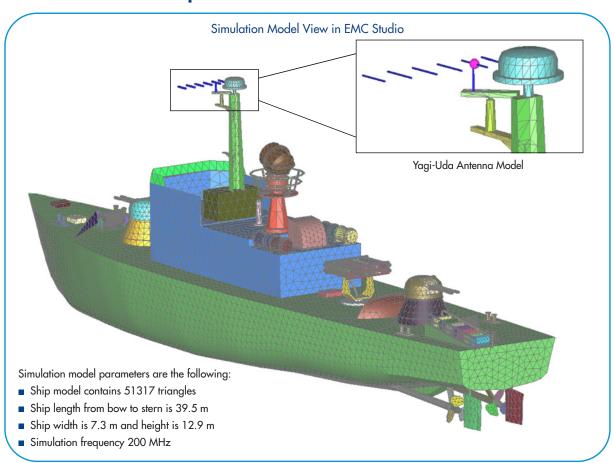


YAGI-UDA ANTENNA ON NAVAL SHIP

Introduction

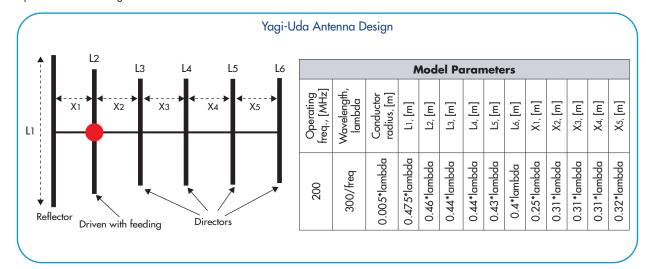
Investigation of optimal antenna position, analysis of near/far fields generated by antennas placed on large structures (like ships, aircrafts, etc.) plays important role in onboard antennas design and installation. This application demonstrates analysis of Yagi-Uda antenna placed on naval ship simulated at 200 MHz frequency.

Simulation Model Description



Design of Yagi-Uda Antenna

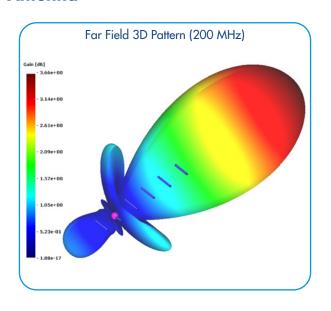
The parameters of the Yagi-Uda antenna are shown below:

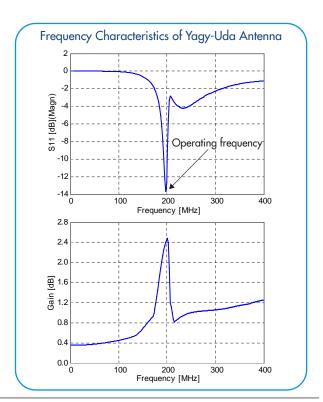






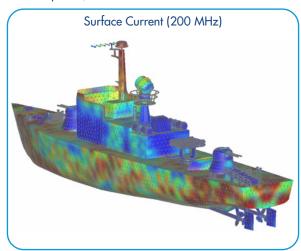
Frequency Characteristics of Yagi-Uda Antenna

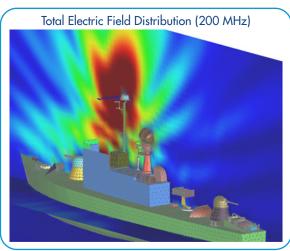




Results

Far field 3D pattern, surface current and total electric field distribution is shown below for 200 MHz frequency:





Total Electric Field (Total, Magn) [V] vs. Phi [deg]



