



Numerical Modeling with WAMIT

Description

The numerical program WAMIT (Wave Analysis MIT) solves a boundary value problem consisting of finding the velocity potential that satisfies the Laplace equation and four linearized boundary conditions. It can be used to solve wave-structure interaction for fixed and floating bodies and hydroelastic response of deformable bodies.

Benefits

The WAMIT was used to predict wave transmission coefficients and dynamic wave pressures to optimize the Corps' new RIBS (Rapidly Installed Breakwater System) floating breakwater design.

Distribution Sources

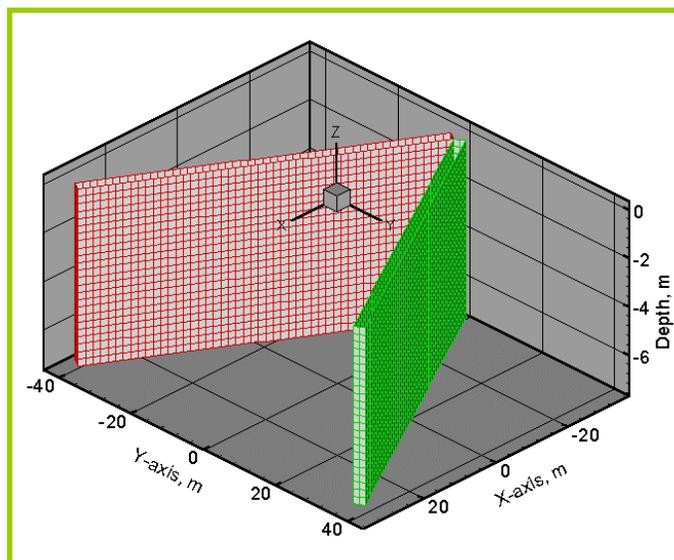
WAMIT was developed by a consortium of industry and academic sponsors, has been thoroughly benchmarked for accuracy, and is considered an industry standard. It can be obtained directly from the Massachusetts Institute of Technology (MIT).

Documentation and Support

Technical and users manuals and technical support are available from MIT to registered licensees.

Point of Contact

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3-dimensional constant panels for RIBS prototype floating breakwater