

PRESS RELEASE

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ApsimRLGC for Stranded Cables

San Jose, California-October 22, 2018. Applied Simulation Technology has developed and released a 2d Electromagnetic Field Solver for modeling cables. The new program, part of ApsimRLGC is designed specifically for the electrical modeling and design of stranded cables.

Traditional 2D programs are used for prediction of Impedance and other important electrical characteristics. But their use is limited to PCB planar structures and simple coaxial cables. Coaxial cables are widely modeled as simple rigid conductors. Real world cables are using stranded multiple wire conductors. This is because of flexibility to be bend and lowering skin resistance in the high frequencies. On the other hand, the stranded cables get higher DC resistance and cross talk (leakage of shield) by imperfect outer conductors of coaxial structures. ApsimRLGC expands its application of rigid cables to multi conductor stranded cables. The GUI allows engineers to quickly enter the various mechanical dimensions to define the stranded cable design. ApsimRLGC then computes the electrical properties and produces models suitable for simulation of Signal Integrity and EMI.

ApsimRLGC for stranded cables solving Helmholtz and Complex Laplace equations accounts for frequency dependent materials, cross talk and losses through DC to high frequencies. ApsimRLGC for stranded cables uses 2D-FEM (Finite Element Method) with auto-meshing. The program can output traditional RLGC parameters of transmission lines in matrix and frequency table formats, or S parameters, suitable for higher frequency applications. The program also takes advantage of parallel processing for improvement in computing speed.

Applications include multiple types of flex cables ranging from digital and stomach cameras, automotive wire harnesses and printers.

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