Remcom XFDTD 7.3.0.3 (x64)

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It is used to simulate wave propagation (including propagation of electromagnetic waves in free space, in dielectric media and in conducting media) in both continuous and discrete form and solves Maxwell's equations. It is written in the C++ language and is platform independent. XFDTD-2 is a commercial licensed version of the open source simulation software XFDTD . It has been developed since 1999 by Dr. Shlomi Raz . XFDTD-2 has been developed with two aims: first, to provide an all-in-one toolset for all the physical problems described by Maxwell's equations; second, to provide an all-in-one toolset that is easier and faster than the previous version . Technical overview XFDTD-2 simulates the propagation of electromagnetic waves within a computational domain defined by the operators (finite difference operators) of the FDTD method. The simulation starts with initial conditions, the boundary conditions and the excitation of the system . XFDTD-2 has two independent, fully coupled modules: the source module and the propagation module. XFDTD-2 offers two different ways of modeling a system: the one is via the pre-computed model and the other is via the user-defined model. XFDTD-2 has a graphical interface based on Qt and Gtk+ in order to provide a user-friendly interface. Input and output options XFDTD-2 allows the definition of: Mesh Time step Update frequency Time source Time sink Distributed source Distributed sink Local source Local sink Modeling sources and sinks Time source A time source is an object that is created in XFDTD-2 to impose a given time step between simulation steps. The time source allows to distribute the simulation process to any number of processors/computers or to distribute a given number of simulation steps to any number of processors/computers. Modeling methods Finite difference operators The FDTD method is based on finite difference operators to model propagation of time-harmonic electric and magnetic fields in the time domain . The time step Δt determines the interval in time between two simulation steps. FDTD methods of electric and magnetic wave propagation PDE-FDTD The first version of the FDTD method for electric and magnetic field time-harmonic modeling

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