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Computational electromagnetics (CEM), computational electrodynamics or electromagnetic modeling is the process of modeling the interaction of electromagnetic fields with physical objects and the environment.. It typically involves using computer programs to compute approximate solutions to Maxwell's equations to calculate antenna performance, electromagnetic compatibility, radar cross section ...

Computational electromagnetics - Wikipedia

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Computational Electrodynamics: The Finite-Difference Time ...

In 1995, Prof. Taflove authored the textbook/research monograph, Computational Electrodynamics: The Finite-Difference Time-Domain Method. In 1998, he edited the research monograph, Advances in Computational Electrodynamics: The Finite-Difference Time-Domain Method. Subsequently, he and Prof. Susan Hagness of the University of Wisconsin-Madison expanded and updated the 1995 book in a year-2000 second edition, and then further expanded and updated the 2000 second edition in a 2005 third edition.

Allen Taflove - Wikipedia

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In September 2012, Allen's major publication, Computational Electrodynamics: The Finite-Difference Time-Domain Method, was ranked as the 7th most-cited book in physics, according to a Google Scholar (GS) search conducted by the University of Rochester's Institute of Optics (see Most-cited physics books).

Allen Taflove and Finite-Difference Time-Domain (FDTD ...

Computational electrodynamics is a vast research field with a wide variety of tools. In physics, the principle of gauge invariance plays a pivotal role as a guide towards a sensible formulation of the laws of nature as well as for computing the properties of elementary particles using the lattice formulation of gauge theories.

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