

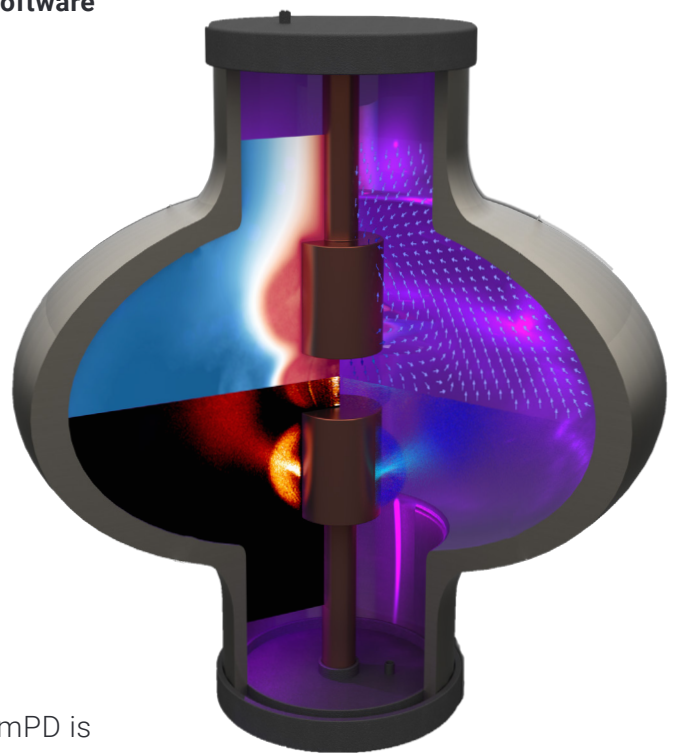
VSimPD

THE MOST COMPREHENSIVE SOLUTION FOR PLASMA SIMULATION

VSimPD is a versatile and powerful Particle-In-Cell (PIC) software application specifically optimized for plasma simulation.

VSimPD explicitly tracks kinetic particle species in arbitrary-pressure background gasses, including the effects of elastic, excitation, and ionization collisions between electrons, ions, and neutral particles.

Using Tech-X's proprietary cut-cell algorithms, combined with VSim's unique approach of using both FDTD and PIC methods, VSimPD quickly and accurately models complex particle dynamics in multiple dimensionalities. Powerful post-processing capabilities allow for robust analysis, and since VSim was designed to run in parallel, it easily installs on high performance computing systems. Originally created by Tech-X scientists, who continue to be leading contributors to the fields of plasma and computational physics, VSimPD is the most comprehensive solution for plasma simulation.

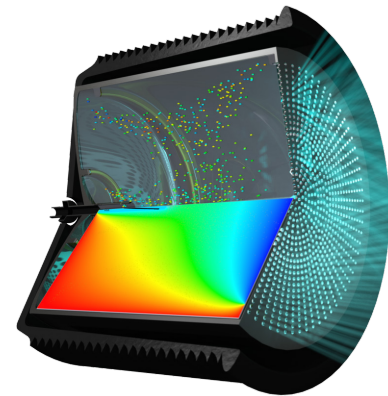


"A substantial amount of the value of the software was the support we received and the help setting up the ion source models. This has made VSim really useful for our research."

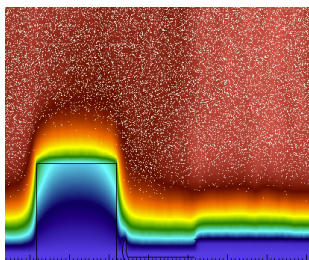
—Bruce Marsh, CERN

VSimPD Advantages:

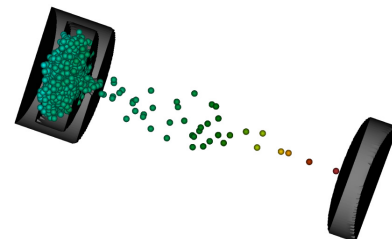
- _____ FDTD Code For Complex Simulations
- _____ PIC Algorithms For Kinetic Plasma Modeling
- _____ Nearly 2nd Order Accuracy
- _____ Full Set Of Reaction Types For In-Depth Analysis
- _____ Powerful Post-Processing
- _____ High Performance Computing Capable
- _____ Seamless Integration With All VSim Modules
- _____ Robust Documentation And Tutorials



Stationary Plasma Thruster



Wafer Etching with Plasma



Ion Extraction from Penning Ion Source

Applications for VSimPD



Plasma Etching



Plasma Cleaning



Plasma Enhanced Chemical Vapor Deposition



Plasma Thrusters



Magnetron Sputtering



DC & RF Sputtering



Ion Sources



Satellite Surface Charging

Technical Support

Many of our clients use our software for novel applications and our highly trained application engineers have the physics and engineering expertise to support their needs. Every Tech-X software license purchase includes support hours so that clients can fully utilize the powerful capabilities found in our simulation products.

About Tech-X Corporation

Tech-X Corporation is committed to technical excellence and innovation. Our scientists and software engineers work together to deliver quantifiable results. We combine academic research with a commercial software company sensibility to deliver high-quality, cutting-edge software that takes advantage of the latest hardware and software advances.

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