

Announcing LPSUITE Release 6.85

(Release Date: 1 February 2010)

ENHANCEMENTS AVAILABLE IN THIS RELEASE INCLUDE

Two-level domain decomposition for matrix solution of field equations using Portable, Extensible Toolkit for Scientific Computation (PETSc)

New particle migration option for hybrid fluid/kinetic modeling

New Monte Carlo reactions for metastable neutrals

Generalized object treatment for Dey and Mittra sub-grid model

Improved surface physics treatments including plasma sheath model and links to TxPhysics libraries (available from Tech-X Corporation)

Fully integrated equation-of-state and radiation transport with PROPACEOS tables (available from Prism Computation Sciences)

Improved diagnostics for individual particle current densities and Monte Carlo reactions (compatible with direct implicit solution)

Output post processing to Exodus format for ParaView and ViSit data analysis
Improved compilation under Windows, including support for Windows 7 (32-bit/64-bit)

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