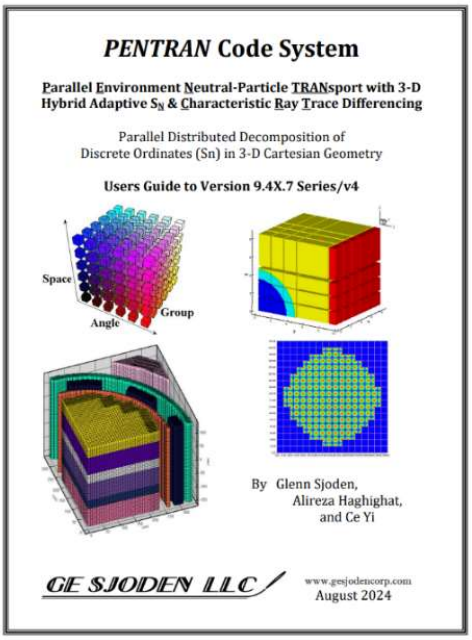
PENTRAN Code System



$19,900 (1 year license, 5 users, unlimited platforms).

Introductory Package/Trial User Pricing Options are Available*

Includes full neutronics 3-D Sn analysis tools:

- **PENTRAN**[1] 3-D Parallel Sn and CRT with MPI support, **forward and adjoint**, fixed source or eigenvalue, with angular, energy, spatial (coarse mesh zone) MPI parallelism with Sn adaptive schemes, or ray trace in 3-D
- **WWPEN2MC** for preparation of **CADIS Adjoint** Transport Weight Windows **for MCNP**[3] **WWINP** Files, with **MIRROR-ADJ** and **3DIWWG** interpolation utilities
- **PENDATA** parallel data gathering tool
- **PENMSHXP** block adaptive 3-D mesh generator with material balance, and geometry + solution plotting capability
- **GMIX** & **HMIX** MG cross section mixing, homogenization, nuclear parameters, and processing tools
- **OJOYU** multigroup cross section prep for NJOY[2]
- **XSMCNP** for multigroup MCNP[3] cross section generation
- **REPRO** preconditioning tool to accelerate PENTRAN
- PPEN.pre / PPEN.post, parallel execution scripts
- Sort-lodbal-flx data sorting script when automatic load balancing is used in PENTRAN

- *Linux OS required.* **On-line or in person training and consulting available**
- Upgrades for any codes during license period (non-trial period/contracted only).
- Extended consulting, problem resolution, and cross section generation and data services available

GE SJODEN LLC

http://gesjodencorp.com

***Contact glenn@gesjodencorp.com for additional details**

[1]*PENTRAN is from http://gesjodencorp.com. Available to most countries, but falls under ECCN 0D999(b), US Dept of Commerce classification, 21 Mar 2011. Country citizenship verification is required for all users; export is limited to specific countries and persons—licensees must administer controlled access.*

[2]*A parallelized NJOY cross section production option is available using NJMAKE and ETEN (MPI) codes to expedite NJOY parallel processing for fast multi-group cross section production. This set of routines can be purchased separately as a* ***Cross Section Generation Toolkit.***

[3]*MCNP must be obtained by the user via RSICC license at ORNL. MCNP and MCNP6 is a trademark and product of Triad National Security, LLC, Los Alamos National Laboratory, 2018*