

CENDL-3 and Related Works

Ge Zhigang

*China Nuclear Data Center (CNDC), China Institute of Atomic Energy (CIAE),
China Nuclear Data Corporation Network (CNDCN)
P. O. Box 275-41, Beijing 102413, People's Republic of China
Tel: +86-10-69357275, Fax: +86-10-69357787, e-mail: gezg@iris.ciae.ac.cn*

Abstract

Chinese Evaluated Nuclear Data Library third version (CENDL-3) contains the nuclear data evaluated works, which was performed during the period of 1995-2000 at China Nuclear Data Center (CNDC) in cooperation with China Nuclear Data Coordination Network (CNDCN). CENDL-3 including the evaluated neutron data for about 200 nuclei with ENDF format in energy region of 10^{-5} eV-20MeV. All new evaluations and re-evaluations of neutron data are based on the update experimental information and nuclear model calculations. For most important nuclei MF-1 to MF-6 have been providing and the comparisons with other nuclear data libraries (ENDF, JENDL, BROND, JEF, et al.) have performed, and the benchmark testing of new evaluations and re-evaluations for the most important nuclei also have been done.

CNDC and CNDCN also have got a lot of progress in the fields of nuclear data theory study, model and code developments, and nuclear database establishment etc. The status of CENDL-3 and results of the nuclear data evaluation studies in the past several years will be introduced in this presentation.