

XII. EXAMPLES

Three quite different types of examples are provided with the SAMMY code.

The first is a series of tutorial exercises, designed as a learning aid for novice users. These were originally designed for use in the SAMMY workshops but have been successfully used for independent study as well. For a description of the tutorial exercises, see Section XII.A.

The second type, described in Section XII.B, is a series of test cases that are designed to test the various features of the code to ensure consistent behavior over time and across computer platforms. A second, equally useful, function of these test cases is to provide users with examples of input for the different features available in the code. Prior to release of the code, all these test cases are run on a variety of platforms. Users who are having difficulty with particular features of the code are strongly encouraged to run the relevant test cases prior to contacting the author for assistance.

Some of the examples that previously were part of the test cases of Section XII.B have now been moved* into a category called “simulations,” described in Section XII.C. These are Monte Carlo simulations of the multiple-scattering corrections for capture or fission data.

* The move was prompted by the author’s propensity to absentmindedly rerun the simulations, even when nothing was changed with respect to the simulations. Putting these very long runs into a separate category ensured that they will be rerun only when necessary.