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RMET21/PC

A Detailed Space Energy Treatment of Neutron Resonances for Homogeneous Mixtures and Cylinderized Reactor

RMET21/PC is a lattice cell program, which calculates different parameters associated with spatial and energy neutron resonance self-shielding, such as effective values of broad energy group absorption and fission cross sections, resonance integrals as function of energy and space, and effective energy group lambda factors.

RMET21/PC uses the integral form of the neutron transport equation to calculate the flux as a function of energy and position in the cell in a very fine energy mesh for the neutron resonance region. The fine energy mesh is arbitrary and the cross sections needed are internally generated by means of any set of resonance parameters or using evaluated data files and pre-processing codes.

RMET21/PC code permits calculations of different parameters related with the spatial and energy resonance self-shielding. All the options have been extensively tested and validated with experimental and Monte Carlo and experimental results. Extensive editing options include the determination of effective values of broad group cross-sections and resonance integrals as functions of the energy and space.

We at **Galaxy Advanced Engineering, Inc. (GAE)** have taken steps to make this code available on your PC platform or %100 compatible under PC/DOS or MS/Windows95/98/2000/XP/ME and NT operating system. To obtain the code and more information, please contact our company or call us at 650-740-3244.