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*Division II*    **VOLUME I**

# NEUTRON CROSS SECTIONS

by

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# Neutron Cross Sections Donald J Hughes

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Parts I and II This report covers a design and feasibility study of a pebble bed reactor steam power plant of 125 megawatt electrical output The reactor design which evolved from this study is a two region thermal breeder operating on the uranium thorium cycle in which all core structural materials are graphite Fuel is in the form of unclad spherical elements of graphite containing fissile and fertile material The primary loop consists of the reactor plus three steam generators and blowers in parallel Plant design and system analysis including cost analysis and capital cost summary are given

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