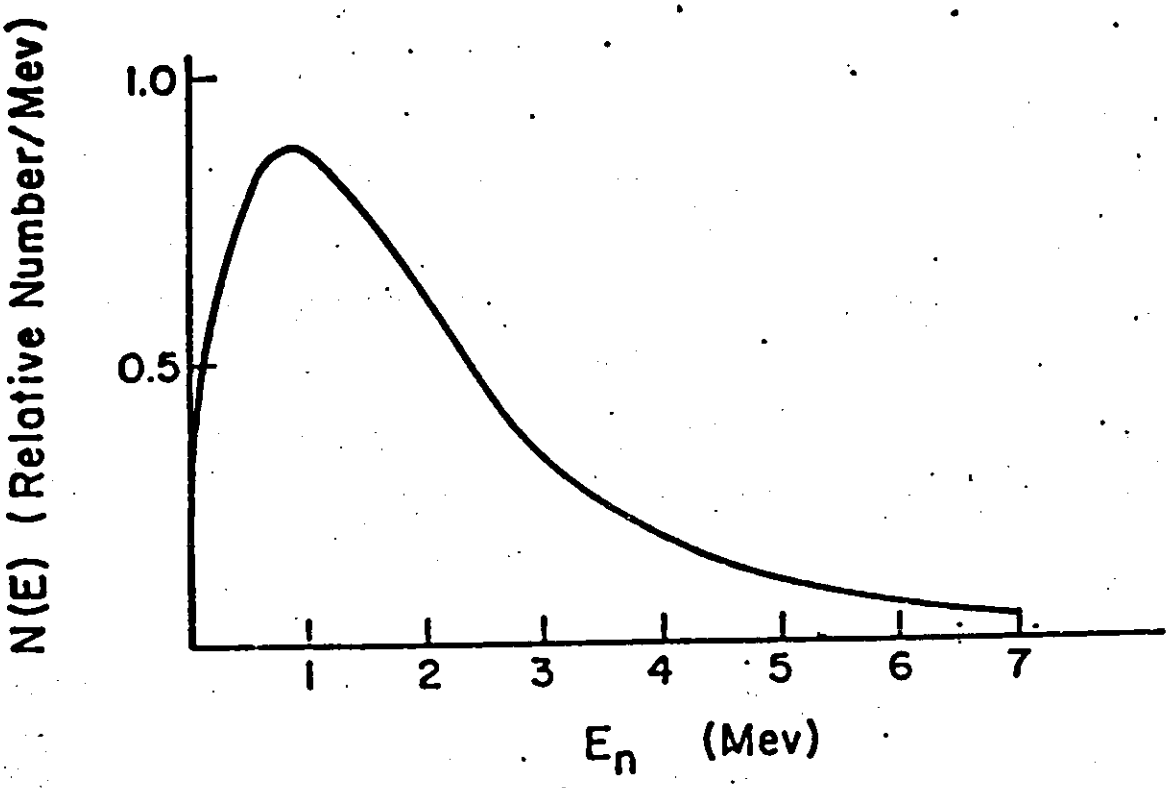
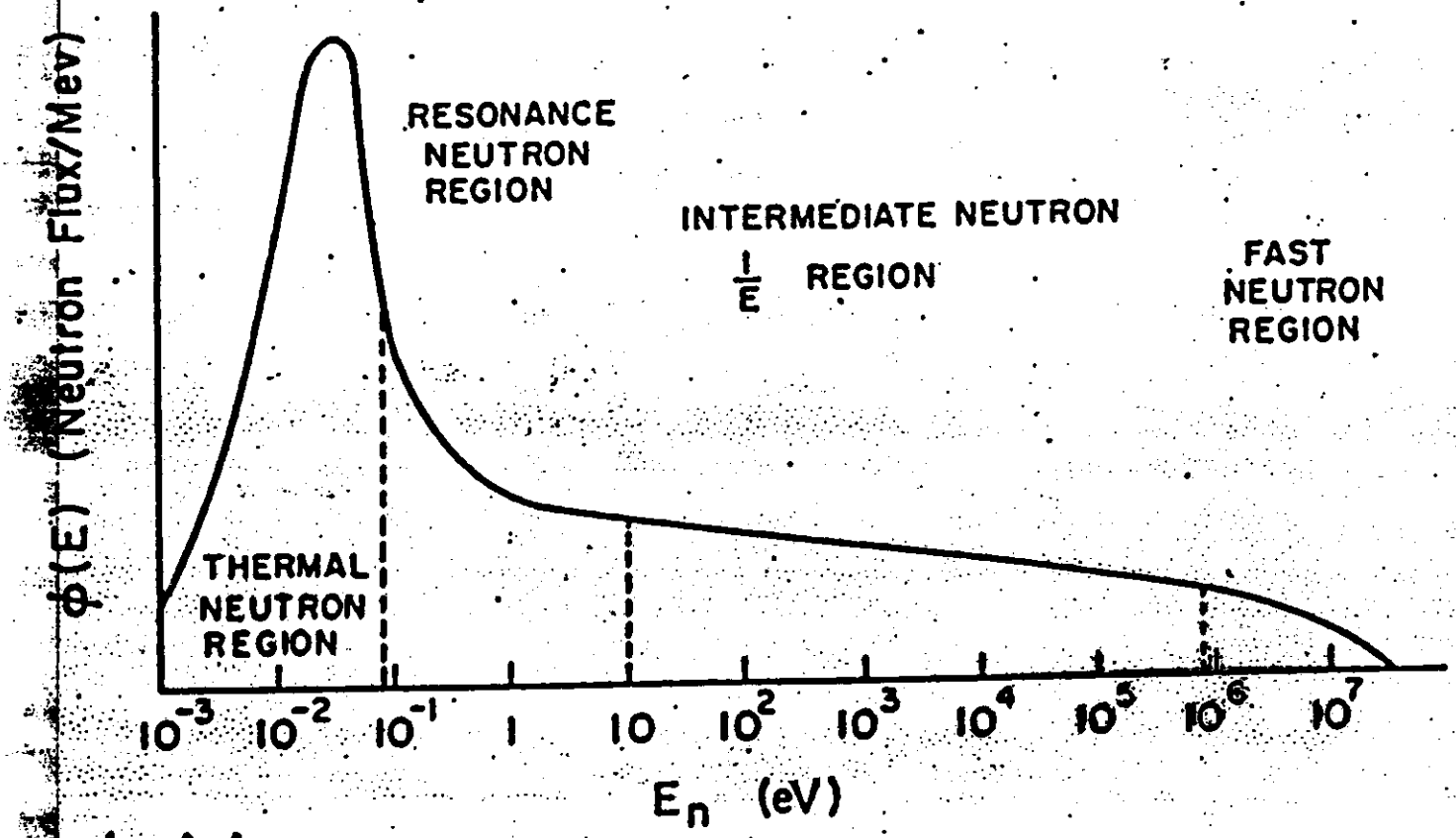
Irradiation Sources



(a)



4.1d

(b)

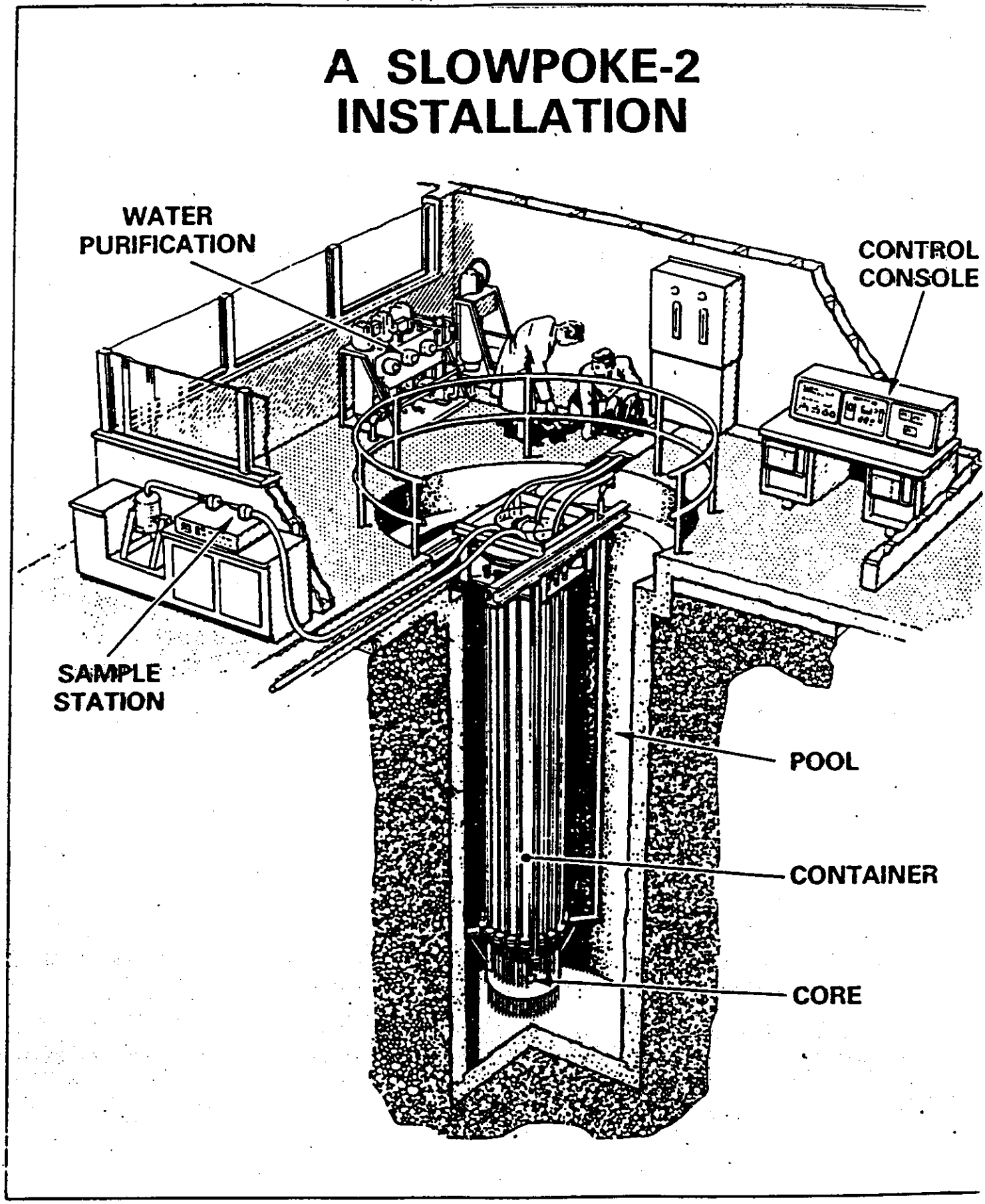


Figure 1: Typical SLOWPOKE-2 Reactor Installation

4.1a

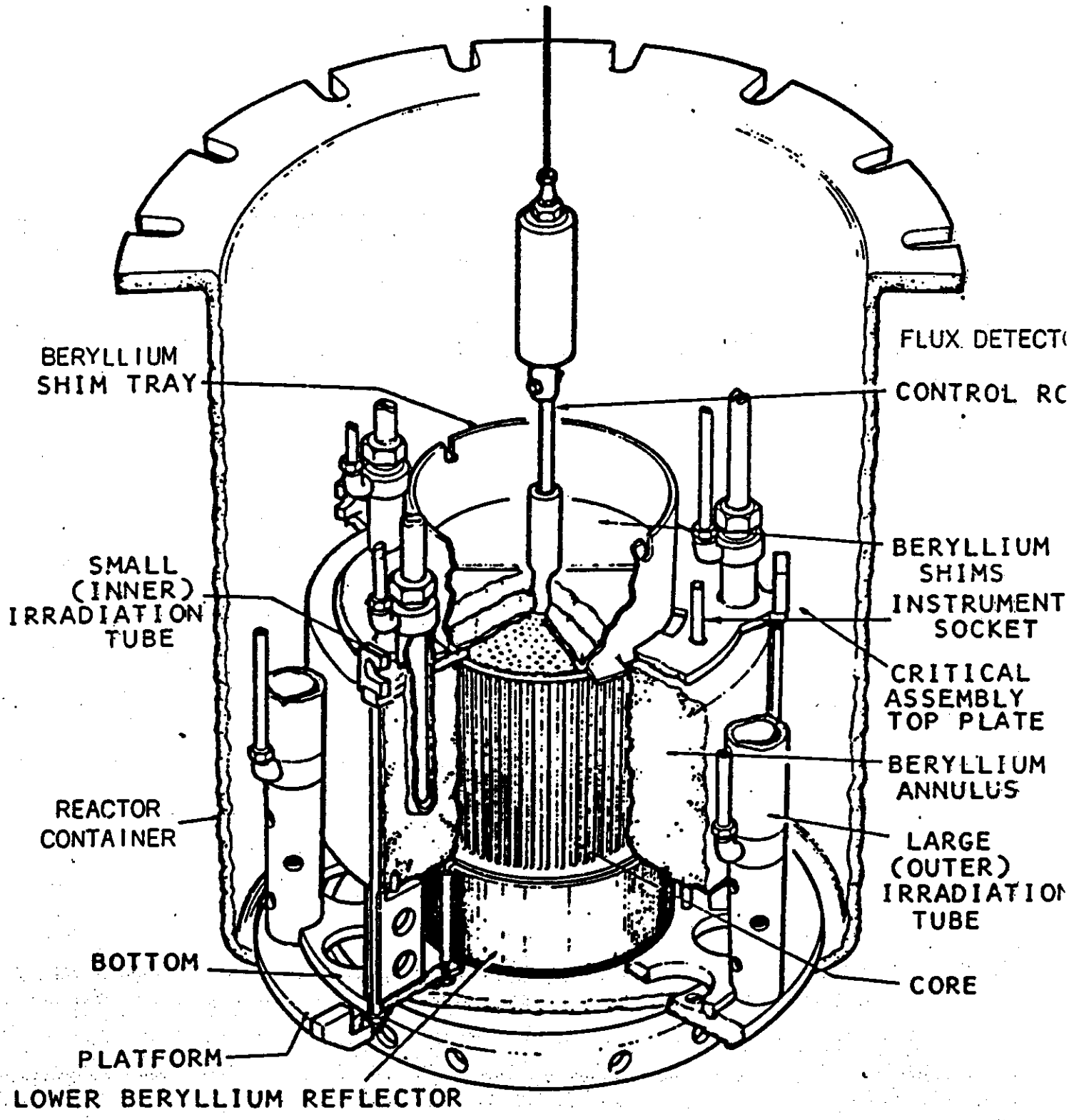
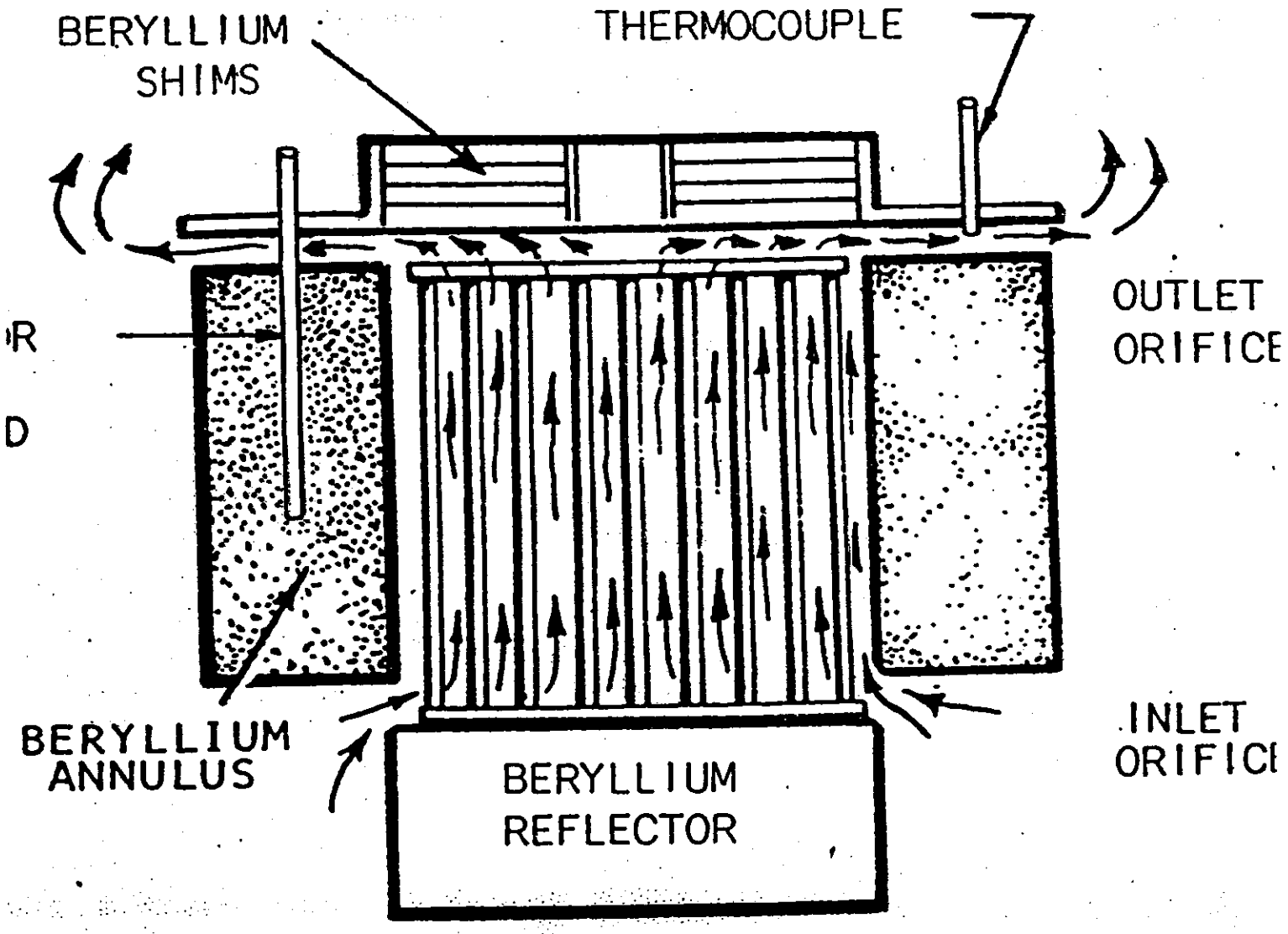


Figure 2: Core, Reflectors and Irradiation Tubes in Lower Section of Reactor Container

4.1al



SLOWPOKE REACTOR - THE CORE

4.1d

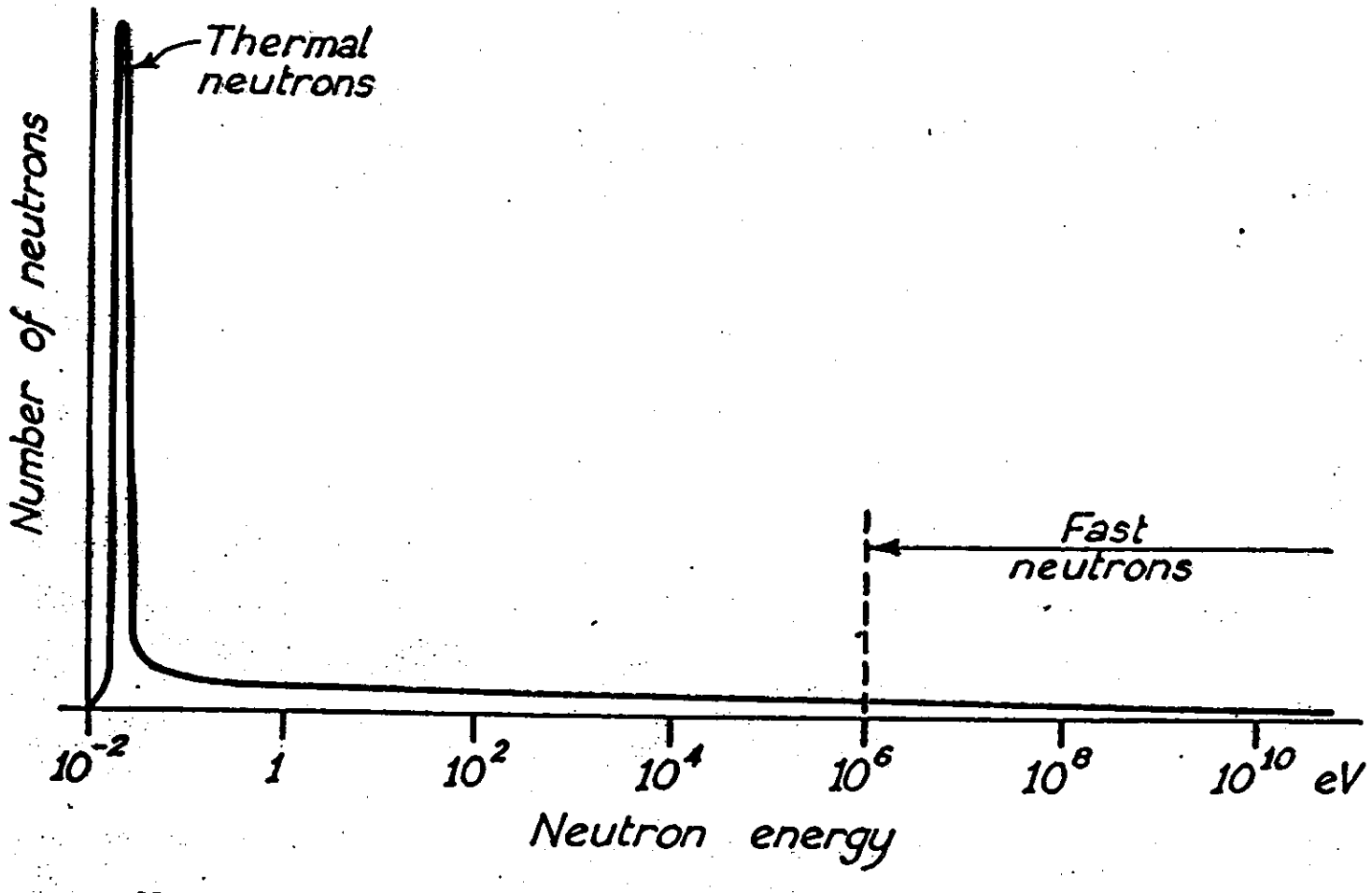
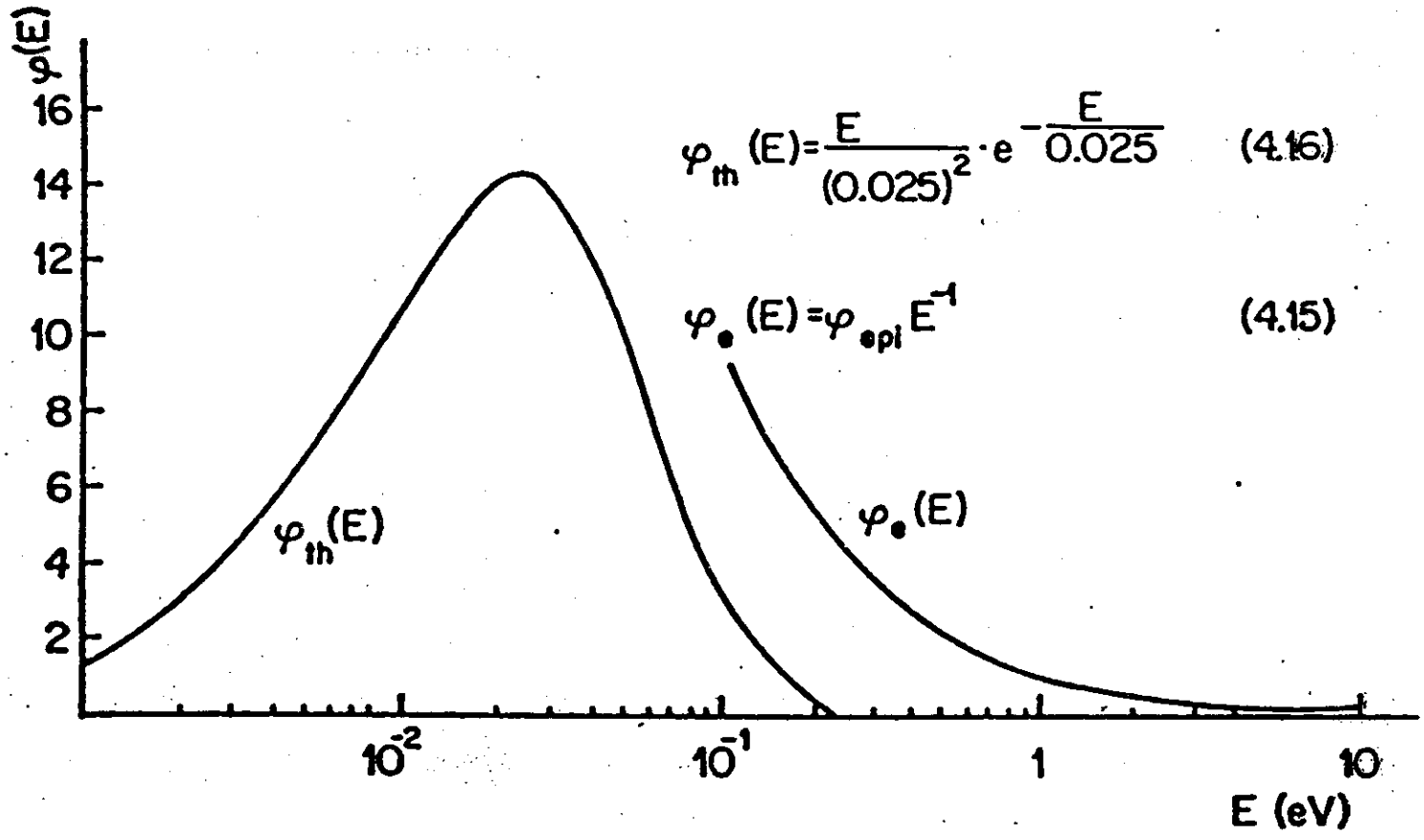
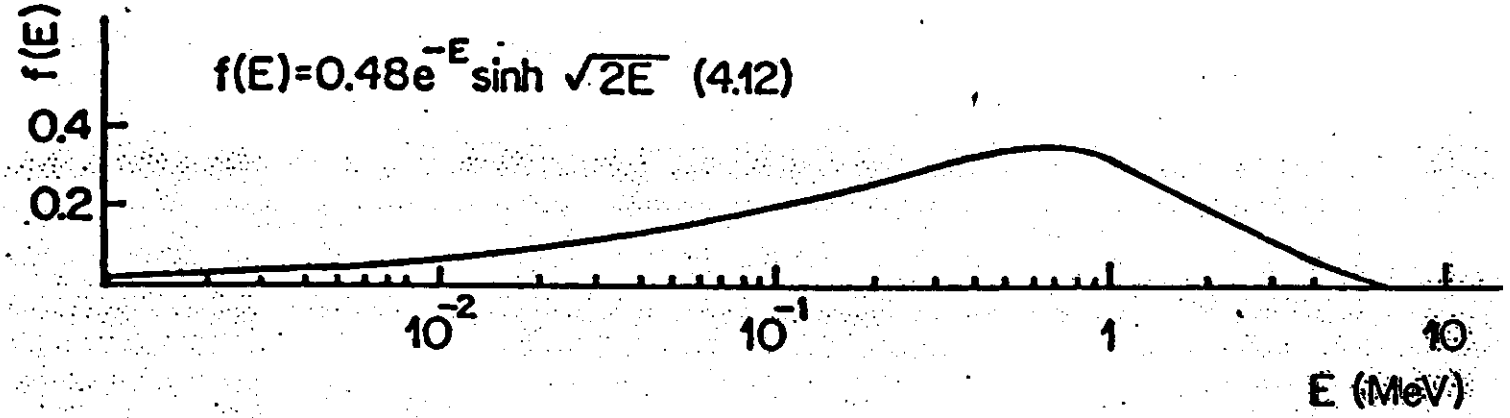


FIG. 3.4. Distribution of neutron energies in a reactor.

4.1d





4.1.d REACTOR NEUTRON SPECTRUM

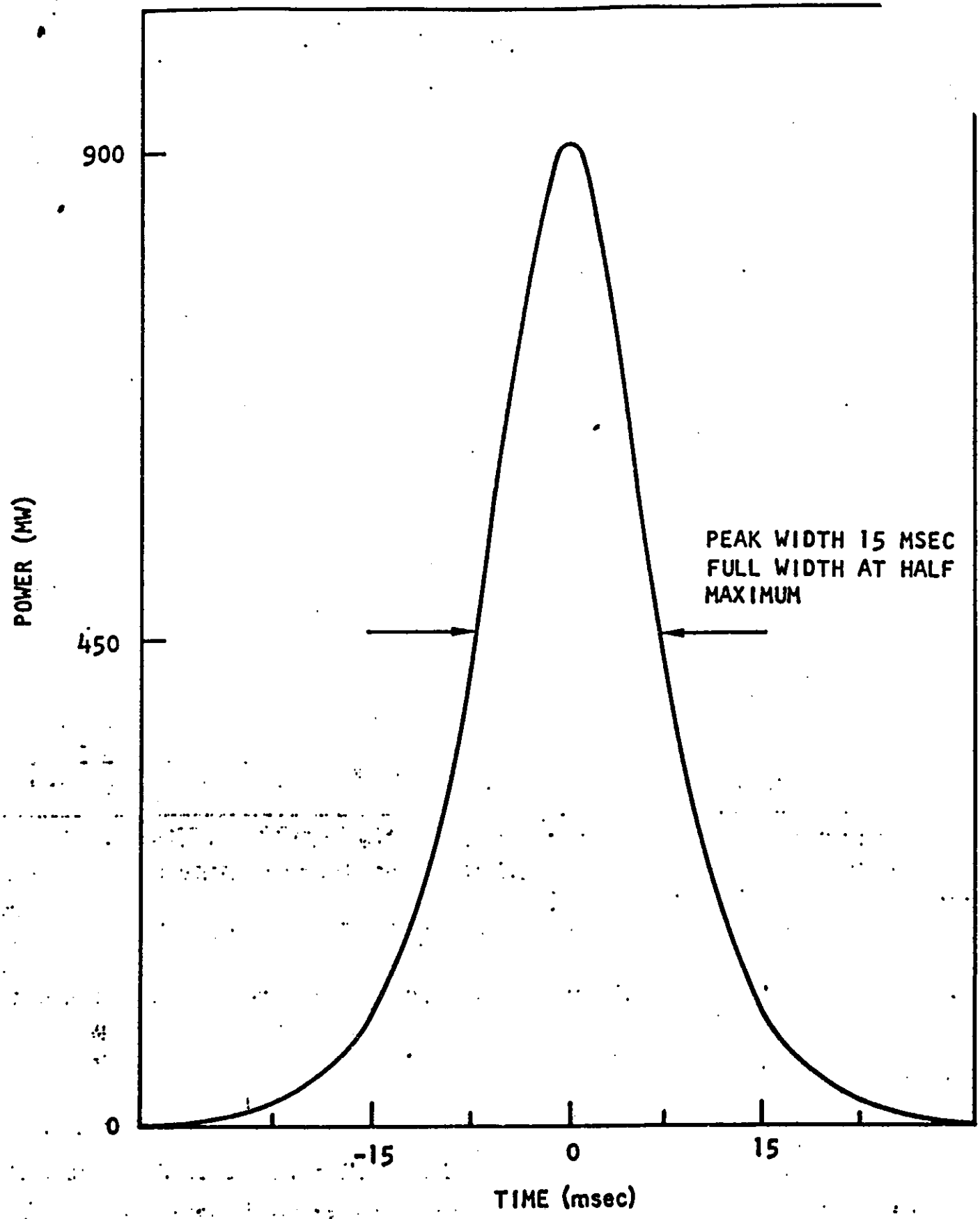


Figure 7.25 The shape of a reactor power pulse reaching a peak power of 900 MW. [From H. P. Yule and V. P. Guinn, Enhancement

4.10

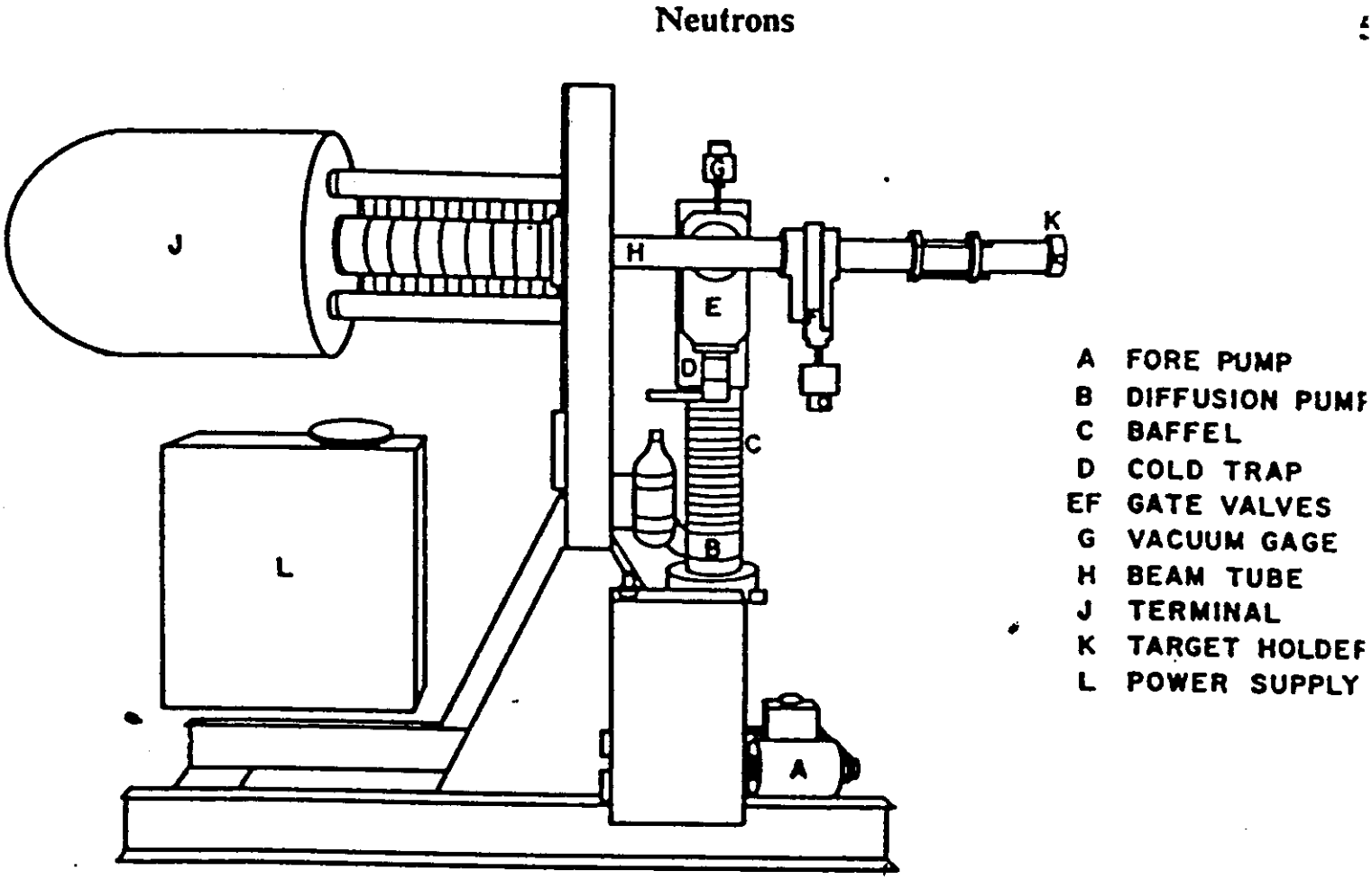


Figure 3.3 A schematic diagram of a neutron generator. [From W. W. Meinke and R. V Shideler, Activation Analysis: New Generators and Techniques Make It Routine, *Nucleoni* 20, No. 3, 60–65 (1962).]

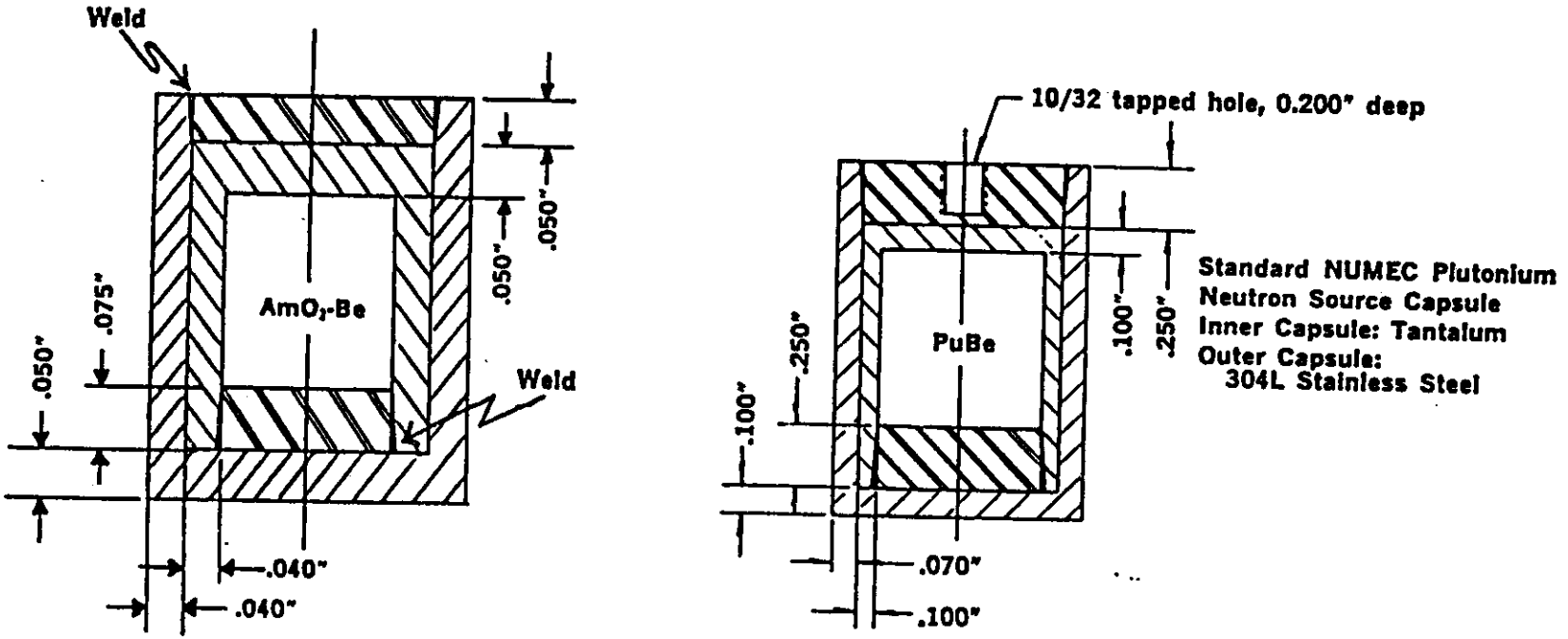
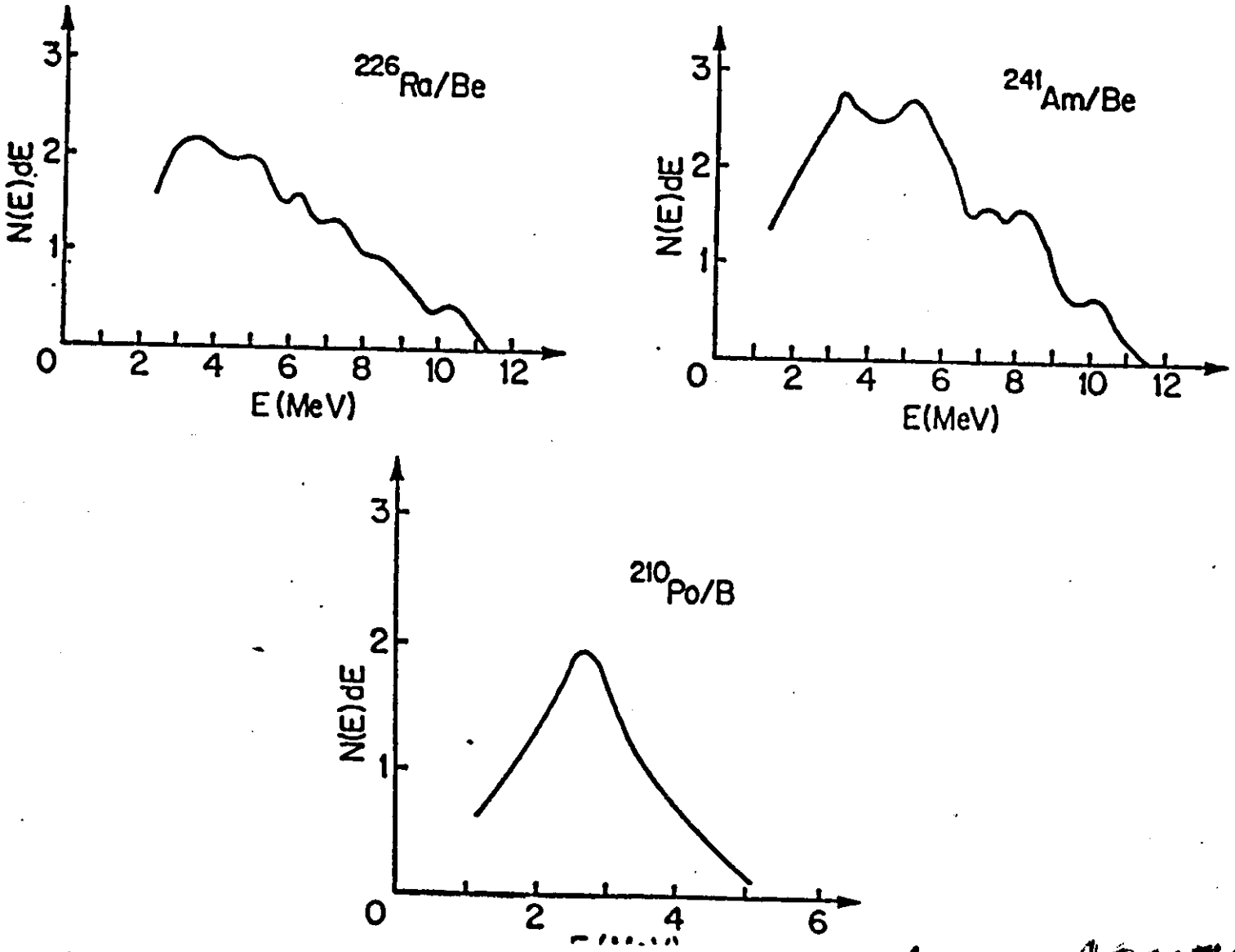


Figure 3.1 Commercially available encapsulated sources of Am-α-Be and Pu-α-Be neutrons yield neutron outputs of about 2.1×10^6 and 1.8×10^6 neutrons/sec-curie, respectively. (*Courtesy of the Nuclear Materials and Equipment Corporation.*)



4.3 Neutron spectra from neutron sources

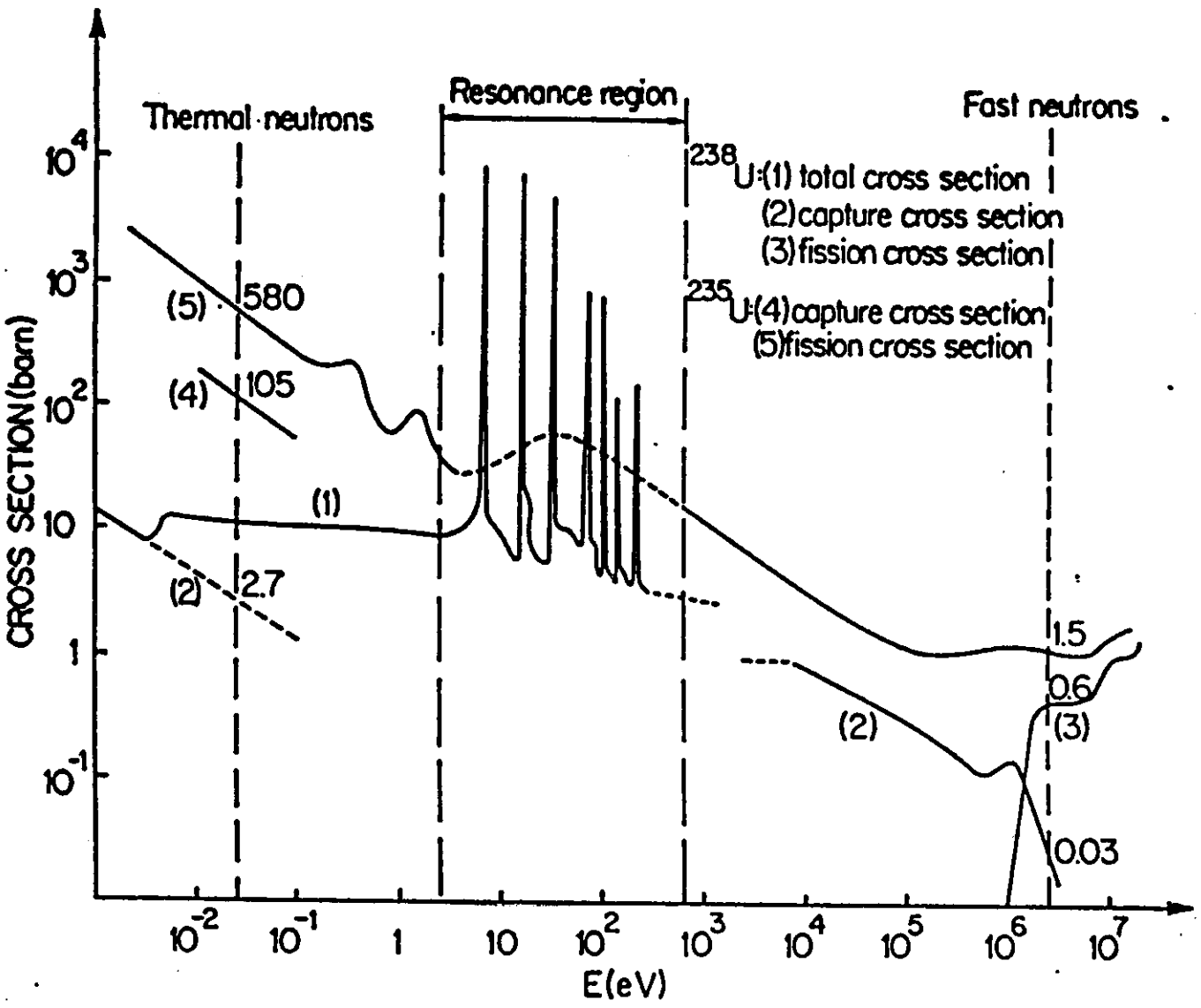


Fig. 4.4. Neutron capture and fission cross section of ^{235}U and ^{238}U (12).