

E22 051 P 06

Elementary Problems on Scattering of Neutrons
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Elementary calculations of single and double scatterings of neutrons by thin layer of hydrogenated substance screen containing hydrogen were made and approximate expressions of transmitted and reflected neutrons are obtained.

Elementary Theory of Energy Distribution of Neutrons
Preliminary discussions of the equilibrium distribution for thick plate were also made.

Note on Slowing Down of Neutrons Scattered by Thin Layer Plate

Calculations on Scattering by Hideki Yukawa

Elementary Calculations on Neutron Scattering Problem (Read July 4, 1936) by Thin Plate.

abstract

It is

presence of

the change of §1. Introduction

The energy distribution of neutrons after passing through a layer of hydrogenated substance, containing hydrogen, is affected by the presence of reflected neutrons in general case.

It is not an easy problem to find the energy distribution of neutrons after passing through a layer of hydrogenated substance. It is an important but not an easy task. Hitherto this problem was approached from two sides. One of course, the first method is to

On the other hand, the probability distribution of neutron energy after a fixed time can be found is well known on the one hand, and the homogeneous can not be practical meaning only if the probability distribution of the number of scattering is determined theoretically under each conditions. The equilibrium homogeneous and isotropic equilibrium distribution found by Fermi can not easily be extended to inhomogeneous and anisotropic distribution.

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