

## Chapter 1 Problems:

[1.1] The following isotopes frequently appear in reactor cores. What are their chemical symbols and names

a.  $^{90}_{38}\text{?}$ , b.  $^{91}_{40}\text{?}$ , c.  $^{137}_{55}\text{?}$ , d.  $^{157}_{64}\text{?}$ , e.  $^{178}_{72}\text{?}$ , f.  $^{237}_{93}\text{?}$ , g.  $^{241}_{95}\text{?}$

a.  $^{90}_{38}\text{Sr}$ , Sr, strontium

b.  $^{91}_{40}\text{Zr}$ , Zr, zirconium

c.  $^{137}_{55}\text{Cs}$ , Cs, cesium

d.  $^{157}_{64}\text{Gd}$ , Gd, gadolinium

e.  $^{178}_{72}\text{Hf}$ , Hf, hafnium

f.  $^{237}_{93}\text{Np}$ , Np, neptunium

g.  $^{241}_{95}\text{Am}$ , Am, americium

# Fundamentals Of Nuclear Reactor Physics Solution Manual

**Serge Marguet**



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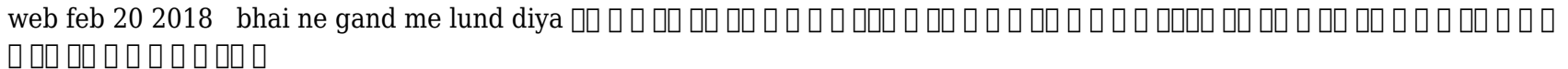

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