

## Chapter 1 Problems:

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

a.  $^{90}_{38}?$ , b.  $^{91}_{40}?$ , c.  $^{137}_{55}?$ , d.  $^{157}_{64}?$ , e.  $^{178}_{72}?$ , f.  $^{235}_{92}?$ , g.  $^{241}_{95}?$

- a.  $^{90}_{38}$ ?, Sr, strontium
- b.  $^{91}_{40}$ ?, Zr, zirconium
- c.  $^{137}_{55}$ ?, Cs, cesium
- d.  $^{157}_{64}$ ?, Gd, gadolinium
- e.  $^{178}_{72}$ ?, Hf, hafnium
- f.  $^{235}_{92}$ ?, Np, neptunium
- g.  $^{241}_{95}$ ?, Am, americium

# Solution Manual For Reactor Physics

**United States. Energy Research and  
Development Administration**



## **Solution Manual For Reactor Physics:**

**Atoms for Peace Manual** United States. Congress. Senate. Committee on Foreign Relations, United States, 1955

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