

[Ar]

Why?: Argon is a noble gas, so the shortcut for this configuration would be just the element symbol.

Titanium (22):

$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^2$

[Ar] $4s^2 3d^2$

Why?: Argon is the closest noble gas the counting passed on the periodic table, so it became the shortcut in this case.

Practice

I made a six question practice sheet with the answer key to help you understand and learn this! I hope this helps.

1. Write a complete electron configuration for an atom of the following:
 - a. Nitrogen
 - b. Sodium
 - c. Sulfur
 - d. Boron
2. Write a complete electron configuration for an atom of the following:
 - a. Carbon
 - b. Silicon
 - c. Phosphorus