|            | ,            | ° A                   | L,              | <u>, L</u>      | Άχ<br>Φ         | _                | 1                |
|------------|--------------|-----------------------|-----------------|-----------------|-----------------|------------------|------------------|
| 0<br>H     |              | <sub>₽</sub> <b>z</b> | ₽ 4             | 용호              | <sup>Σ</sup> ×  | 8<br>E           |                  |
|            | ΥIIA         | <u>в</u>              | 13              | 35<br><b>Br</b> | <u>- ي</u>      | 85<br>At         |                  |
|            | ۸IA          | 0                     | 91<br>S         | લ<br>Se         | 52<br>Te        | 84<br><b>Po</b>  |                  |
|            | ٨٨           | N<br>2                | <b>d</b>        | 33<br><b>YS</b> | 2 <b>p</b>      | 83<br>Bi         |                  |
|            | ١٧A          | ၁                     | 14<br>Si        | 32<br>Ge        | 50<br>S n       | <b>q</b> d<br>88 |                  |
|            | ∀≣           | В                     | 13<br><b>AI</b> | 31<br>Ga        | 49<br><b>In</b> | 81<br>TI         |                  |
|            |              |                       | IB              | 30<br>Zn        | 8<br>Cd         | %<br>Hg          |                  |
| <b>a</b> ) |              | ts                    | <u>@</u>        | Cu<br>Cu        | 47<br>Ag        | 79<br><b>Au</b>  |                  |
| )          |              | en                    |                 | 28<br><b>Ni</b> | 46<br>Pd        | 78<br>Pt         | 110<br>110       |
| Ţ          |              | Œ                     | ₩               | 27<br>Co        | 45<br>Rh        | 77<br><b>Ir</b>  | 109<br>109       |
|            | •            | <u>e</u>              |                 | 26<br>Fe        | 44<br>Ru        | یو<br>0s         | 108<br>108       |
| Ji.        | )<br> <br> - | ĮΤ                    | VIIB            | 25<br>Mn        | 43<br>Tc        | 75<br>Re         | 107<br>107       |
| Ö          | )            | le                    | MB              | ر<br>د          | 42<br><b>Mo</b> | ₹ ₹              | 106<br>106       |
| . <u>T</u> | •            | <b>₩</b>              | ΥB              | 23<br><b>~</b>  | <del>↑</del>    | ಣ<br><b>Ta</b>   | 105<br><b>Ha</b> |
| P          | •            | o                     | Ι۸Β             | 22<br>Ti        | 40<br>Zr        | 72<br><b>H</b> € | 104<br><b>P</b>  |
|            |              |                       | ₽               | 21<br>Sc        | 39              | 57<br><b>*La</b> | 89<br>+AC        |
| ;          | ∀            | ⁴<br>Be               | 12<br>Mg        | ္က              | sr<br>Sr        | 56<br><b>Ba</b>  | 88<br>Ba         |
| ⊴ _ I      | •            | 3<br>Li               | ⊒<br>Na         | <u></u> ∠       | 37<br><b>Pb</b> | SS<br>Cs         | 87<br>Fr         |
| -          |              | 2                     | m               | 4               | Ŋ               | 9                | ~                |

| * Lanthanide         | 88              | 29       | 99      | 61             | - 79     | 63       | - 64            | - 59            | 99       | - 29     | 89               | 69         | 02               | 71       |
|----------------------|-----------------|----------|---------|----------------|----------|----------|-----------------|-----------------|----------|----------|------------------|------------|------------------|----------|
| Series               | Ce              | Pr       | Ρ̈́     | Pm             | Sm       | Eu       | Вd              | P               | Dy       | Но       | Er               | Тm         | ΥÞ               | L        |
| + Actinide<br>Series | <b>UL</b><br>06 | 91<br>Pa | 92<br>U | ್ಜ<br><b>೪</b> | 94<br>Pu | 95<br>Am | <b>ա</b> շ<br>% | 97<br><b>BK</b> | 33<br>Cf | 99<br>Es | 100<br><b>Fm</b> | 101<br>101 | 102<br><b>No</b> | 103<br>L |