

# Metals and their Compounds

## Lecture 5.2

Transition metals (Fig 23.24 p 918 BLB)

The first row Transition metals

<i>name</i>	<i>symbol</i>	<i>e.c.</i>	<i>oxidation states</i>
Scandium	Sc	d <sup>3</sup>	+3
Titanium	Ti	d <sup>4</sup>	+3 +4
Vanadium	V	d <sup>5</sup>	+2 +3 +4 +5
Chromium	Cr	d <sup>6</sup>	+2 +3 +6
Manganese	Mn	d <sup>7</sup>	+2 +3 +4 +6 +7
Iron	Fe	d <sup>8</sup>	+2 +3 +6
Cobalt	Co	d <sup>9</sup>	+2 +3
Nickel	Ni	d <sup>10</sup>	+2 +3
Copper	Cu	d <sup>10</sup> s <sup>1</sup>	+1 +2 +3