





















Slip planes and directions for common crystal structure

Table 7.1	Slip Systems for Face-Centered Cubic, Body-Centered
Cubic, and	Hexagonal Close-Packed Metals

Metals	Slip Plane	Slip Direction	Number of Slip Systems
	Face-Cente	red Cubic	
Cu, Al, Ni, Ag, Au	{111}	$\langle 1\overline{1}0\rangle$	12
	Body-Cente	red Cubic	
α -Fe, W, Mo	$\{110\}$	$\langle \overline{1}11 \rangle$	12
α -Fe, W	{211}	$\langle \overline{1}11 \rangle$	12
α-Fe, K	{321}	$\langle \overline{1}11 \rangle$	24
	Hexagonal C	lose-Packed	
Cd, Zn, Mg, Ti, Be	{0001}	$\langle 11\overline{2}0\rangle$	3
Ti, Mg, Zr	$\{10\overline{1}0\}$	$\langle 11\overline{2}0\rangle$	3
Ti, Mg	$\{10\overline{1}1\}$	$\langle 11\overline{2}0\rangle$	6







