

Contents

B1	Hydroboration	1
B2	Reactions of organoboranes	9
B3	Further reactions of organoboranes	17
B4	Organoboron routes to unsaturated hydrocarbons	25
B5	Allylboranes and borane enolates	31
B6	Boronic ester homologation	42
Si1	Properties of organosilicon compounds	47
Si2	Protection of hydroxy groups as silyl ethers	51
Si3	Silyl enol ethers and related silyl ethers	55
Si4	Alkene synthesis (Peterson olefination)	67
Si5	Alkynyl-, vinyl-, and arylsilanes	71
Si6	Allylsilanes and acylsilanes	84

Oxford Chemistry Primers

1	S. E. Thomas	<i>Organic synthesis: the roles of boron and silicon</i>
2	D. T. Davies	<i>Aromatic heterocyclic chemistry</i>
3	P. R. Jenkins	<i>Organometallic reagents in synthesis</i>
4	M. Sainsbury	<i>Aromatic chemistry</i>
5	L. M. Harwood	<i>Polar rearrangements</i>
6	I. E. Mark	<i>Oxidations</i>
