

Contents

Chapter 1	Material Properties	
Chapter 2	Phase Diagrams and Solid Solubility	49
Chapter 3	Crystal Growth and Doping	81
Chapter 4	Diffusion	111
Chapter 5	Epitaxy	
Chapter 6	Ion Implantation	
Chapter 7	Native Oxide Films	371
Chapter 8	Deposited Films	419
Chapter 9	Etching and Cleaning	
Chapter 10	Lithographic Processes	533
Chapter 11	Device and Circuit Fabrication	567
Appendix	The Mathematics of Diffusion	639
Index		657