

## OVERVIEW

<b>Chapter 1: SiC Bulk Growth</b> .....	1
<b>Chapter 2: SiC Epitaxial Growth</b> .....	127
2.1 Homoepitaxial Growth .....	129
2.2 Heteropolytypic and Heteroepitaxial Growth .....	279
<b>Chapter 3: Physical Properties and Characterization of SiC</b> .....	319
3.1 Extended Defects: Stacking Faults and Dislocations .....	321
3.2 Point Defects .....	455
3.3 Impurities .....	579
3.4 Surfaces and Interfaces .....	667
3.5 Fundamental Properties .....	689
3.6 Wafer Mapping .....	711
<b>Chapter 4: Porous SiC, SiC Nanoparticles and Nanowires</b> .....	737
<b>Chapter 5: Processing of SiC</b> .....	779
5.1 Implantation and Doping of SiC .....	781
5.2 Contacts .....	859
5.3 Oxides and Other Dielectrics .....	935
5.4 Chemical-Mechanical Polishing of SiC .....	1091
5.5 Micromachining and MEMS .....	1103
<b>Chapter 6: SiC Devices</b> .....	1127
6.1 Overviews .....	1129
6.2 Unipolar Devices .....	1147
6.3 Bipolar Devices .....	1329
6.4 Sensors and Detectors .....	1457
<b>Chapter 7: III-Nitrides</b> .....	1481
7.1 Growth of III-Nitrides .....	1483
7.2 Physical Properties and Characterization of III-Nitrides .....	1505
7.3 III-Nitride Surfaces and Interfaces .....	1525
7.4 III-Nitride Devices .....	1541
<b>Chapter 8: Related Materials</b> .....	1557