

## **OVERVIEW**

**Chapter 1: Surveys**

**Chapter 2: SiC Bulk Growth**

**Chapter 3: SiC Epitaxial Growth**

3.1 Homoepitaxial Growth

3.2 Heteroepitaxial Growth

**Chapter 4: Physical Properties of SiC**

4.1 Structural Defects

4.2 Point Defects

4.3 Electronic Properties and Impurities

4.4 Optical Characterization

4.5 Electrical Characterization

4.6 Surfaces and Interfaces

4.7 Nanostructure and Others

**Author Index**

**Keyword Index**

**Chapter 5: Processing of SiC**

5.1 Ion Implantation

5.2 Contacts and Etching

5.3 Oxides and Other Dielectrics

**Chapter 6: SiC Devices**

6.1 Schottky Barrier Diodes

6.2 Power Field Effect Transistors

6.3 Bipolar Devices

6.4 High-Frequency Devices

6.5 Sensors

**Chapter 7: III-Nitrides**

7.1 Growth and Characterization of III-Nitrides

7.2 III-Nitride Devices