## Chaos and Stability in Defect Processes in Semiconductors

## **Table of Contents**

| Radiation Damage, Defects and the Amorphous State in Irradiated Semiconductors I.V. Verner, N.N. Gerasimenko and J.W. Corbett   | 4   |
|---|-----|
| Amorphization of Semiconductors under Irradiation I.V. Verner, N.N. Gerasimenko and J.W. Corbett  | 31  |
| <b>Transformations Produced by Ion Implantation in Ion-Beam Amorphized Semiconductors</b> I.V. Verner, N.N. Gerasimenko and J.W. Corbett                              | 64  |
| Anomalies in the Properties of Defects in Irradiated Semiconductors I.V. Verner, N.N. Gerasimenko and J.W. Corbett  | 98  |
| Interactions, Stability and Dimensionality in the Problem of Defect Transformation in Semiconductors under Irradiation I.V. Verner, N.N. Gerasimenko and J.W. Corbett | 130 |
| Amorphization-Crystallization of Semiconductors during Ion Implantation as a Non-<br>Equilibrium Phase Transitions  |     |
| I.V. Verner, N.N. Gerasimenko and J.W. Corbett  | 170 |