CONTENTS

1. Introduction
1.1 Motivations and Scope
1.2 Basic Features of Particle-Induced Erosion Processes
1.3 Organization and Presentation of the Compiled Erosion Data 13
2. Erosion Data Derived from Tokamaks 13
2.1 Physical Sputtering 15
2.2 Radiation-Enhanced Sublimation 15
2.3 Chemical Erosion: Hydrocarbon formation 15
2.4 Chemical Erosion due to Oxygen 16
References for Sections 1 and 2 19
3. Carbon-Based Materials: Selected Collection of Chemical Erosion Data 23
List of Reactions for Section 3 25
References for Section 3 59
4. Comprehensive Set of Chemical Erosion Data from Various Laboratories 63
List of Reactions for Section 4
Appendix A: List of Abbreviations 273
Appendix B: List of Analytic Fitting Functions 275
Acknowledgments 277