

# Contents

1 Band Theory Applied to Semiconductors . . . . .	
<i>M. Lannoo</i>	
2 Optical Properties and Charge Transport . . . . .	69
<i>R. G. Ulbrich</i>	
3 Intrinsic Point Defects in Semiconductors 1999 . . . . .	121
<i>G. D. Watkins</i>	
4 Deep Centers in Semiconductors . . . . .	167
<i>H. Feichtinger</i>	
5 Point Defects, Diffusion, and Precipitation . . . . .	231
<i>T. Y. Tan, U. Gösele</i>	
6 Dislocation . . . . .	291
<i>H. Alexander, H. Teichler</i>	
7 Grain Boundaries in Semiconductors . . . . .	377
<i>J. Thibault, J.-L. Rouviere, A. Bourret</i>	
8 Interfaces . . . . .	453
<i>R. Hull, A. Ourmazd, W. D. Rau, P. Schwander, M. L. Green, R. T. Tung</i>	
9 Material Properties of Hydrogenated Amorphous Silicon . . . . .	541
<i>R. A. Street, K. Winter</i>	
10 High-Temperature Properties of Transition Elements in Silicon . . . . .	597
<i>W. Schröter, M. Seibt, D. Gilles</i>	
11 Fundamental Aspects of SiC . . . . .	661
<i>W. J. Choyke, R. P. Devaty</i>	
12 New Materials: Semiconductors for Solar Cells . . . . .	715
<i>H. J. Möller</i>	
13 New Materials: Gallium Nitride . . . . .	771
<i>E. R. Weber, J. Krüger, C. Kieselowski</i>	
Index . . . . .	809