

Contents

<i>Otfried Madelung</i> Walter Schottky (1886–1976)	1
<i>Gottfried Landwehr</i> The Discovery of the Quantum Hall Effect	17
<i>Gerhard Abstreiter</i> Light Scattering in Novel Layered Semiconductor Structures	41
<i>Hermann Haken</i> Excitons and the Electronic Polarization in Semiconductors	55
<i>Winfried Mönch</i> On the Present Understanding of Schottky Contacts	67
<i>Ulrich M. Gösele</i> Point Defects and Diffusion Mechanisms in Crystalline Semiconductors	89
<i>Armin Bunde</i> Physics on Fractal Structures	113
<i>Kurt Binder</i> Calculation of Phase Diagrams for Models of Metallic Alloys	133
<i>Francisco Guinea, Gerd Schön</i> Bloch Oscillations and the Dissipative Phase Transition in Josephson Junctions	169
<i>Heinz Krenn</i> Light Induced Magnetization in Semiconductors	183
<i>Eugene E. Haller</i> Semiconductor Physics in Ultra-Pure Germanium	203

<i>Günter Weimann</i>	
Transport Properties of Semiconductor Heterostructures	231
<i>Helmut Heinrich, Jerzy M. Langer</i>	
Band Offsets in Heterostructures	251
<i>Franz Rudolf Keßler</i>	
Optics with Gradients of Free Carrier Concentration	277
<i>Eckehard Schöll</i>	
Instabilities in Semiconductors: Domains, Filaments, Chaos	309
<i>Wolfgang Richter</i>	
Physics of Metal Organic Chemical Vapour Deposition	335
<i>Michael Stoisiek, Roland Sittig</i>	
Power Thyristors Using IC-Technology	361

