Contents

List of contributors vii
Preface xi
Editors’ introduction xiii

Section I – Overview
1 Sleep medicine and psychiatry: history and significance 1
J. Allan Hobson

Section II – Normal Sleep
2 Neuroanatomy and neurobiology of sleep and wakefulness 13
James T. McKenna, Ritchie E. Brown and Robert W. McCarley
3 Neurophysiology and neuroimaging of human sleep 36
Fabio Ferrarelli and Ruth M. Benca
4 The function(s) of sleep 59
Marcos G. Frank
5 Dreams 79
Michael Schredl

Section III – Principles of Evaluation and Management
6 Taking a sleep history 95
Karl Doghramji and Dani Choufani

Section IV – Primary Sleep Disorders in Psychiatric Contexts
7 Sleep-related breathing disorders 111
In-Soo Lee and Joel E. Dimsdale
8 Sleep-related movement disorders 130
Marta Novak, Andras Szentkiralyi and Magdolina Hornyak
9 Hypersomnias of central origin 146
Chad C. Hagen and Jed E. Black
10 Parasomnias 160
Thomas D. Hurwitz and Carlos H. Schenck
11 Circadian rhythm disorders 186
Katy Borodkin and Yaron Dagan

Section V – Insomnia in Psychiatric Contexts
12 Principles of insomnia 203
Wendy M. Troxel and Daniel J. Buysse
13 Treatment of insomnia: pharmacotherapy 216
Andrew D. Krystal
14 Cognitive behavioral therapy for insomnia 233
Philip R. Gehrman, Dieter Riemann, Donn Posner and Michael Perlis

Section VI – Sleep Disturbance in Psychiatric Illness
15 Depressive disorders 247
Philip R. Gehrman, Michael E. Thase, Dieter Riemann and Michael Perlis
16 Bipolar disorder 266
David T. Plante and John W. Winkelman
## Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td><strong>Sleep in anxiety disorders</strong></td>
<td>286</td>
</tr>
<tr>
<td></td>
<td>Candice A. Alfano and Thomas A. Mellman</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td><strong>Psychotic disorders</strong></td>
<td>298</td>
</tr>
<tr>
<td></td>
<td>Allen C. Richert</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td><strong>Sleep in substance use disorders</strong></td>
<td>314</td>
</tr>
<tr>
<td></td>
<td>Deirdre A. Conroy, J. Todd Arndt, and Kirk J. Brower</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td><strong>Sleep in dementias</strong></td>
<td>330</td>
</tr>
<tr>
<td></td>
<td>Aimee L. Pierce and Alon Y. Avidan</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td><strong>Sleep in attention-deficit/hyperactivity disorder (ADHD)</strong></td>
<td>343</td>
</tr>
<tr>
<td></td>
<td>Samuele Cortese and Michel Lecendreux</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td><strong>Sleep in pediatric mood and anxiety disorders</strong></td>
<td>358</td>
</tr>
<tr>
<td></td>
<td>Valerie McLaughlin Crabtree and Anna Ivanenko</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td><strong>Sleep in developmental disorders</strong></td>
<td>371</td>
</tr>
<tr>
<td></td>
<td>Gregory Stores</td>
<td></td>
</tr>
</tbody>
</table>

### Section VII – Future Directions

| 24      | **The future at the sleep-psychiatry interface**                    | 387  |
|         | David T. Plante and John W. Winkelman                               |      |

**Index** 398

*Color plate section between pp. 146 and 147.*