Contents

Foreword ix
Preface xiii
List of contributors xv

Section 1 – Neuropsychological processes
1 Developmental neuropsychology: normative trajectories and risk for psychiatric illness 4
   Marisa M. Silveri and Deborah A. Yurgelun-Todd
2 Processes and mechanisms in neuropsychiatry: sensory-perceptual 15
   Ester Klimkeit and John L. Bradshaw
3 Processes and mechanisms in neuropsychiatry: motor-executive processes 25
   Nicole Rinehart, Phyllis Chua and John L. Bradshaw
4 The neurobiology of the emotion response: perception, experience and regulation 37
   Sarah Whittle, Murat Yücel and Nicholas B. Allen
5 Frontal asymmetry in emotion, personality and psychopathology: methodological issues in electrocortical and hemodynamic neuroimaging 49
   John D. Herrington, Nancy S. Koven, Wendy Heller, Gregory A. Miller and Jack B. Nitschke
6 Behavioral and electrophysiological approaches to understanding language dysfunction in neuropsychiatric disorders: insights from the study of schizophrenia 67
   Gina R. Kuperberg, Tali Ditman, Donna A. Kreher and Terry E. Goldberg
7 Associative memory 96
   Marc L. Seal and Anthony P. Weiss

8 The neural basis of attention 105
   Susan M. Ravizza, George R. Mangun and Cameron S. Carter
9 The role of executive functions in psychiatric disorders 117
   Renée Testa and Christos Pantelis
10 Decision-making 138
   Luke Clark and Trevor W. Robbins
11 The neuropsychology of social cognition: implications for psychiatric disorders 157
   Tamara A. Russell and Melissa J. Green

Section 2 – The importance of methods
12 Psychiatric diagnoses: purposes, limitations and an alternative approach 178
   Henry J. Jackson and Patrick D. McGorry
13 Neuropsychological methods in mental disorders research: illustrations from methamphetamine dependence 194
   Steven Paul Woods, Jennifer E. Iudicello, J. Cobb Scott and Igor Grant
14 The study of emotion and the interaction between emotion and cognition: methodological perspectives 206
   Kimberley R. Savage, Nathan A. Gates, Aleksey Dumer, Stephanie Assuras, Michelle M. Halfacre and Joan C. Borod
15 Using neurophysiological techniques to study auditory hallucinations in schizophrenia 221
   Judith M. Ford and Daniel H. Mathalon
16 Neuroimaging 233
   Paolo Fusar-Poli and Philip McGuire
Contents

17 Psychopharmacological modeling of psychiatric illness 252
  Garry D. Honey

18 Cognitive phenomics 271

Section 3 – The neuropsychology of psychiatric disorders

19 Neuropsychology of ADHD and other disorders of childhood 285
  Eve M. Valera, Ariel Brown and Larry J. Seidman

20 A multidimensional neurobehavioral model of personality disorders 300
  Richard A. Depue

21 Neuropsychology in eating disorders 316
  Laura Southgate, Kate Tchanturia and Janet Treasure

22 Neurobiological and neuropsychological pathways into substance abuse and addictive behavior 326
  Murat Yücel, Dan I. Lubman, Nadia Solowij and Warrick J. Brewer

23 Neuropsychology of obsessive-compulsive disorder 342
  Thilo Deckersbach, Cary R. Savage and Scott L. Rauch

24 Neuropsychological investigation in mood disorders 353
  Paul Keedwell, Simon A. Surguladze and Mary Philips

25 Manic distractibility and processing efficiency in bipolar disorder 365
  David E. Fleck, Paula K. Shear and Stephen M. Strakowski

26 Schizophrenia 378
  Renée Testa, Stephen J. Wood and Christos Pantelis

Section 4 – Integration and synthesis: are mental illnesses disorders of consciousness? A triologue between neuroscientific, philosophical and psychiatric perspectives

27 Mental illness and the consciousness thesis 390
  G. Lynn Stephens and George Graham

28 A non-reductive physicalist account of affective consciousness 399
  Jaak Panksepp

29 Consciousness of oneself and others in relation to mental disorders 408
  Kai Vogeley and Albert Newen

30 Triologue: commentaries on “Are mental illnesses disorders of consciousness?” Comments on Panksepp and on Vogeley & Newen 414
  G. Lynn Stephens and George Graham
  Affective consciousness and the psychiatric comfort zones of experienced life 416
  Jaak Panksepp
  The definition and the constitution of mental disorders and the role of neural dysfunctions 420
  Kai Vogeley and Albert Newen
  Response to commentaries 423
  G. Lynn Stephens and George Graham
  Understanding affects: toward a neurobiology of primary process mentalities 425
  Jaak Panksepp
  Replies to comments by Jaak Panksepp and by G. Lynn Stephens & George Graham 427
  Kai Vogeley and Albert Newen

Index 430

The color plates are to be found between pages 388 and 389.