# Contents

*Preface to the Fifth Edition* ix
*CME Information* xiii

1. Chemical Neurotransmission 1
2. Transporters, Receptors, and Enzymes as Targets of Psychopharmacological Drug Action 29
3. Ion Channels as Targets of Psychopharmacological Drug Action 51
4. Psychosis, Schizophrenia, and the Neurotransmitter Networks Dopamine, Serotonin, and Glutamate 77
5. Targeting Dopamine and Serotonin Receptors for Psychology, Mood, and Beyond: So-Called “Antipsychotics” 159
6. Mood Disorders and the Neurotransmitter Networks Norepinephrine and γ-Aminobutyric Acid (GABA) 244
7. Treatments for Mood Disorders: So-Called “Antidepressants” and “Mood Stabilizers” 283
8. Anxiety, Trauma, and Treatment 359
9. Chronic Pain and Its Treatment 379
10. Disorders of Sleep and Wakefulness and Their Treatment: Neurotransmitter Networks for Histamine and Orexin 401
11. Attention Deficit Hyperactivity Disorder and Its Treatment 449
12. Dementia: Causes, Symptomatic Treatments, and the Neurotransmitter Network Acetylcholine 486
13. Impulsivity, Compulsivity, and Addiction 538

*Suggested Reading and Selected References* 579
*Index* 615