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Nota di contenuto	Intro -- Acknowledgements -- Contents -- Contributors -- Part I: The Executive Functions in "Old" and "New" Addictions -- Chapter 1: Similarities and Differences Between "Old" and "New" Addictions: The Focus on Executive Functions and Reward Mechanisms -- 1.1 Definition of Different (Old and New) Addictions -- 1.2 Cognitive and Control Impairment in Addiction -- 1.3 Executive Functions: A Unique Object? -- 1.4 Impairment of EF in Addiction -- 1.4.1 Decision-Making Processes -- 1.4.2 Metacognitive Processes -- 1.5 Commonalities and Differences for EF and Neural Circuits in Substance and Behavioural Addictions -- 1.5.1 Brain Dysfunctions -- 1.5.2 Brain Circuits: The Role of Brain Connectivity -- 1.6 Reward Mechanisms (RM) in Substance and Behavioural Addiction -- 1.6.1 RM in Substance

Addiction -- 1.6.2 RM in Behavioural Addiction -- 1.6.3 The Cortical Unbalance Model: Neurophysiological and "Attitude" Effect -- 1.7 EEG Approach to Addiction: BIS/BAS and Cortical Oscillations -- 1.8 Impulsivity Control and Psychological Traits -- 1.9 The Future Treatment Approach Based on Integrated Models: Neural Stimulation -- 1.10 Conclusions -- References -- Chapter 2: Psychopathology of EFs -- 2.1 Executive Functions: Conceptual Frame and Internal Structure -- 2.1.1 "Hot" and "Cool" Subcomponents of EF -- 2.2 Neurofunctional Correlates of EF: The Role of Prefrontal Hubs -- 2.3 EF in Psychopathology -- 2.4 Psychopathology of EF in Addiction -- 2.4.1 Bridging the Gap: Neurocognitive Models of Addiction -- 2.5 Conclusions -- References -- Chapter 3: The Assessment of Executive Functions: A New Neuropsychological Tool for Addiction -- 3.1 Neurocognitive Deficits in Addiction -- 3.2 Tools for Assessing EF in Addiction -- 3.3 Why a New Neuropsychological Battery for Screening of EF in Addiction -- 3.4 Potential Applications: Saliency and Innovativeness of the BFE-A. 3.5 Presentation of an Empirical Validation Study -- 3.6 Structure of the BFE-A -- 3.6.1 Verbal Memory Test -- 3.6.2 Working Memory Test -- 3.6.3 Focused Attention Test -- 3.6.4 Verbal Fluency Test -- 3.6.5 Non-verbal Fluency Test -- 3.6.6 Modified Stroop Task for Addiction -- 3.6.7 Modified Go/No-Go Task for Addiction -- 3.7 Conclusions -- References -- Chapter 4: EFs in Pathological Gambling Disorder -- 4.1 Introduction and Definition of Pathological Gambling Disorder -- 4.2 How Are EFs Involved in Pathological Gambling Disorder? -- 4.2.1 Brain Correlates of EF in GD Deficits -- 4.2.2 Empirical Studies About Behavioural Deficits in GD: Measurement Evidence -- 4.2.3 Behavioural Addiction, GD, and Substance Addiction: What Kind of Brain Correlates Relationship? -- 4.2.4 Some Limits in EFs Studies Applied to GD -- 4.3 Theoretical Models to Explain SUD and GD -- 4.3.1 Aberrant Learning Theory -- 4.3.1.1 The Intermittent Schedule for Reward and Loss -- 4.3.1.2 Illusory Perceived Control -- 4.3.2 The Triadic Neurocognitive Model -- 4.3.2.1 The Hypersensitization Toward Gambling-Related Stimuli and the "Impulsive System" -- 4.3.2.2 The Disruption of the Reflective Function -- 4.3.2.3 The Role of Interoceptive Processes: Halfway Between Impulsive and Reflective Systems -- 4.3.3 Frontocortical Dysfunction Theory -- 4.3.4 The Cortical Unbalance Model and Lateralization Effect -- 4.4 Behavioural Study and EFs in GD -- 4.4.1 Reward Sensitivity and IGT -- 4.5 Electrophysiology of Pathological Gambling behaviour -- 4.5.1 ERP Evidence for GD -- 4.5.1.1 N200 -- 4.5.1.2 P300 -- 4.5.1.3 ERN and FRN -- 4.5.2 EEG and Lateralization Effect -- 4.6 To Summarize: Gambling Between Specificity and Uniqueness -- References -- Part II: Prevention and Treatment of Addictions -- Chapter 5: Neuroenhancement of the Executive Functions in Addiction -- 5.1 Introductory Remarks. 5.2 Cognitive Training for the Rehabilitation of EFs in SUD -- 5.2.1 Cognitive Bias Modification (CBM) Training -- 5.2.1.1 Neurocognitive Findings -- 5.2.2 Response Inhibition Training -- 5.2.2.1 Neurocognitive Findings -- 5.2.3 Working Memory Training (WMT) -- 5.2.3.1 Multicomponential Treatment Including WMT -- 5.2.3.2 Neurocognitive Findings -- 5.2.4 Goal Management Training (GMT) -- 5.2.4.1 Neurocognitive Findings -- 5.2.5 To Summarize -- 5.3 Cognitive Approaches for the Rehabilitation of EFs in Non-substance-Related Disorder -- 5.3.1 Gambling Disorder -- 5.3.2 Internet-Related Disorders -- 5.4 Tools for the Rehabilitation and Neuroenhancement of the EF in Addiction -- 5.4.1 Computer-Based Cognitive Training in Addiction -- 5.4.2 Non-invasive Brain Stimulation Through

Neuromodulation Techniques -- 5.4.3 From Serious Games to VR-Based Approaches -- 5.5 Current Trends: From the Combination of Multiple Training Approaches to Precision Medicine -- 5.6 Conclusions -- References -- Chapter 6: Mindfulness-Based Interventions (MBIs) as a Way for Treating EFs in Addiction-Related Disorders -- 6.1 An Introduction to Mindfulness-Based Interventions (MBIs) -- 6.2 MBIs for Addiction-Related Disorders -- 6.3 Mechanisms and Neurocognitive Correlates of MBIs as a Treatment for Addiction-Related Disorders -- 6.3.1 Neurophysiological Evidence of MBIs in SUD -- 6.3.1.1 Neurophysiological Evidence of MBIs on Cue-Induced Craving -- 6.3.1.2 Neurophysiological Evidence of MBIs on Reward Processing -- 6.3.1.3 Neurophysiological Evidence of MBIs on Stress Reactivity -- 6.3.2 Evidence of MBIs Application on Executive Functioning in SUD -- 6.3.3 Experimental Evidence from MBIs Applied to Behavioural Addictions (BAs) -- 6.4 Combining Neuroscientific Tools with MBIs for Boosting EFs in Addiction-Related Disorders -- 6.4.1 Neurofeedback Interventions and Wearable Devices. 6.4.2 MBIs and Neurofeedback Technique in Addiction-Related Disorders: State of the Art and Proposals -- 6.5 Conclusions -- References -- Chapter 7: Neuromodulation Techniques in the Treatment of Addictions -- 7.1 Introduction -- 7.2 Invasive Brain Stimulation -- 7.3 Non-invasive Brain Stimulation -- 7.3.1 Repetitive Transcranial Magnetic Stimulation -- 7.3.2 Transcranial Direct Current Stimulation -- 7.3.3 Combined Non-invasive Brain Stimulation -- 7.4 Neurofeedback -- 7.4.1 Theoretical and Methodological Aspects -- 7.4.2 Functional Magnetic Resonance Imaging Neurofeedback -- 7.4.3 Electroencephalography Neurofeedback -- 7.4.4 Neurofeedback: Future Perspectives and New Insights -- 7.5 General Conclusion -- References -- Chapter 8: Alcohol Use Disorders and Psychiatric Comorbidities -- 8.1 Introduction -- 8.2 AUD and Other Externalising Associated Disorders -- 8.2.1 Substance Use Disorders (SUDs) -- 8.2.2 Personality Disorders -- 8.3 AUD and Internalising Associated Disorders -- 8.3.1 Major Depressive Disorder (MDD) and Anxiety Disorder -- 8.3.2 Attention-Deficit Hyperactivity Disorder (ADHD) -- 8.4 AUD and Thought Disorder -- 8.5 Comorbidity Research: Vision for Future Research -- References -- Chapter 9: Interoception and Addiction: Etiological Mechanisms and a Root for Intervention -- 9.1 The Construct of Interoception as a Dynamic Multicomponent "Interoceptive Experience" -- 9.2 Dysfunctional Interoceptive Processing and Addiction Disorders -- 9.3 Neural Basis of Interoception: Shared Circuits with Addiction and EFs? -- 9.4 Interoception as a Root for Interventions in Addiction Disorders -- 9.4.1 The Reason for "Personalized" Clinical Model-Based Interventions for Controlling Interoceptive Signals -- 9.4.2 Mindful Awareness in Body-Oriented Therapy (MABT) for Training Interoceptive Awareness Skills. 9.4.3 Physical Exercise for Empowering Interoception and Cognitive Control -- 9.5 Conclusion -- References -- Chapter 10: New Addictions in Youth: Internet Addiction and Internet Gaming Disorder -- 10.1 Introduction: Technological Addictions in Youth -- 10.2 Internet Addiction -- 10.3 Internet Gaming Disorder -- 10.4 Risk Factors for the Onset of New Addictions -- 10.4.1 New Addictions and Social Functioning -- 10.4.2 New Addictions and Characteristics of Personality -- 10.4.3 New Addictions and Coping -- 10.5 New Addictions and Neurobiological Correlates -- 10.6 Treatment -- References -- Index.
