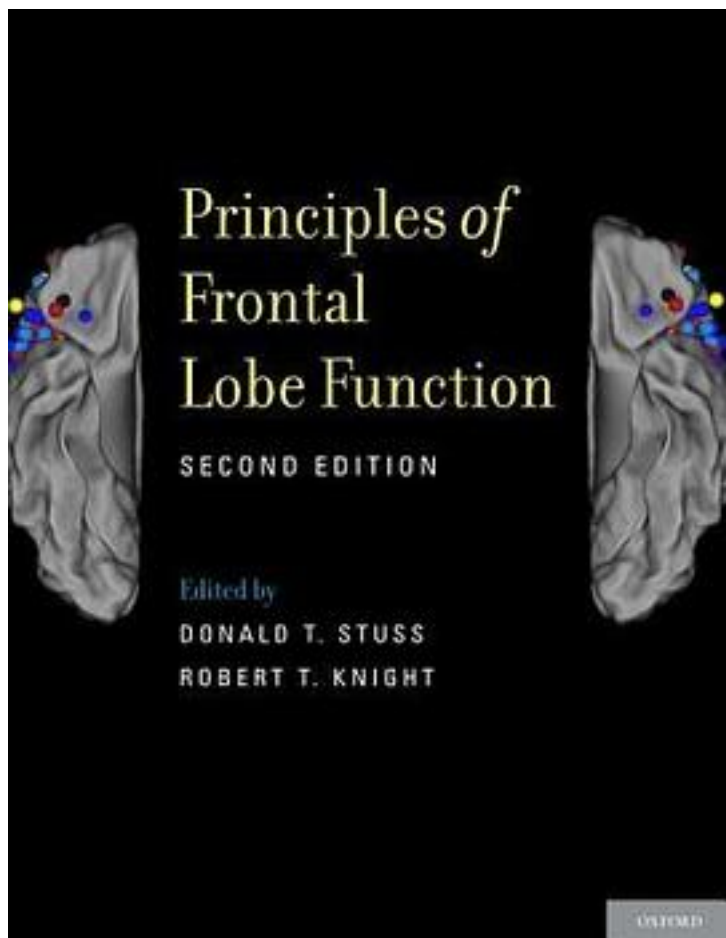


Principles of Frontal Lobe Function



[Principles of Frontal Lobe Function_ 下载链接1](#)

著者:Donald T. Stuss

出版者:

出版时间:2013

装帧:

isbn:9780199837755

The second edition of *Principles of Frontal Lobe Function* is a newly organized, and thoroughly updated, volume divided into 9 different sections, each co-edited by leaders in the specific domain of frontal lobe research. The topic areas include

anatomy and neuropharmacology, development, systems and models, fundamental cognitive mechanisms, social behavior, clinical neuropsychology, aging, psychiatric disorders, and rehabilitation. This organization reflects both an increase in our combined knowledge about frontal lobe functioning through new imaging technologies, as well as the expansion of the field as a whole to include new topics such as social neuroscience that were not discussed in the first edition.

Principles of Frontal Lobe Function will naturally be of particular interest to researchers and clinicians actively investigating how the frontal lobes operate and to understand dysfunction as a means to design treatment. This new edition will also be a useful resource for anyone involved in a discipline related to brain function, whether it be cognitive neuroscience, behavioral neurology, neuropsychiatry, neuropsychology, or neurorehabilitation. Our knowledge of how the frontal lobes are integrated with functioning in every other region of the brain is also integrating our approach to solving brain-based problems.

Authors in this volume represent investigators who are deep-rooted in frontal lobe research. As such, students will be exposed to both the classical and frontier perspectives and will gain significant insight into future research directions of what we believe to be the most fascinating area of the brain.

作者介绍:

目录: 1. Introduction

2. Cognitive Functions of the Prefrontal Cortex

SECTION I. NEUROANATOMY AND NEUROPHARMACOLOGY

Introduction to Section I: Neuroanatomy and Neuropharmacology

3. Prefrontal Pathways that Control Attention

4. Fleeting Thoughts

5. Optimizing the Executive

6. The Functional Role of Reward Signals in Different Prefrontal Areas

7. The Mid-Dorsolateral Prefronto-Parietal Network and the Epoptic Process

Section II. Frontal Lobe Development

Introduction to Section II: Frontal Lobe Development

8. Postnatal Development of Neural Circuits in the Primate Prefrontal Cortex

9. Children's Frontal Lobes

10. Adolescent Frontal Lobes

11. Environmental Influences on Prefrontal Development

12. The Development of Brain Connectivity Supporting Prefrontal Cortical Functions

13. Mechanistic Accounts of Frontal Lobe Development

Section III. Systems/Modeling

Introduction to Section III: Systems/Modeling

14. How Context Impacts Cognitive and Motivational Control of Behavior in the Primate Prefrontal Cortex

15. The Prefrontal Cortex as a Quintessential “Cognitive-Type” Neural Circuit

16. Functional Division among Monkey Prefrontal Areas in Goal-directed Behavior

17. Role of Prefrontal Cortex in Reinforcement Learning and Decision Making

Section IV Cognitive Neuroscience

Introduction to Section IV: Cognitive Neuroscience

18. Motivation, Control, and Human Prefrontal Executive Function

19. Adaptive Neural Coding in Frontal and Parietal Cortex

20. Functional Contributions of the Ventromedial Prefrontal Cortex in Value-based

Decision Making

21. Network-Based Mechanism of Prefrontal Control

22. Is there an inferior frontal cortical network for cognitive control and inhibition?

Section V. Social Neuroscience

Introduction to Section V: Social Neuroscience

23. The Cognitive Motor System

24. False Tagging Theory

25. Intentional and Incidental Self-Control in Ventrolateral Prefrontal Cortex

26. Dynamic Social Judgment

27. Social Outcome Following Early-Life Damage to Prefrontal Cortex

Section VI. Neuropsychology

Introduction to Section VI: Neuropsychology

28. On Neuropsychological Studies of Prefrontal Cortex

29. Decision making

30. A New Era for Lesion-Behavior Mapping of Prefrontal Functions

31. Rostral Prefrontal Cortex (Brodmann Area 10)

32. Beliefs Sculpt Human Social Identity

Section VII. Aging and Prefrontal Function

Introduction to Section VII: Aging and Prefrontal Function

33. Prefrontal Cortex and Self-Initiated Encoding Strategy Use in Healthy Younger and Older Adults

34. Aging, Working Memory, and Attention Control

35. Top-Down Modulation Deficit in the Aging Brain an Emerging Theory of Cognitive Aging

36. Heterogeneity in Frontal Lobe Aging

37. Frontal Lobes and Aging

Section VIII. Psychiatric and Neurological Disorders

Introduction to Section VIII: Psychiatric and Neurological Disorders

38. Prefrontal Cortex and Impaired Cognition and Behavior in Schizophrenia

39. Selective Vulnerability in Behavioral Variant Frontotemporal Dementia

40. Selfless Cells

Section IX. Neurorehabilitation

Introduction to Section IX: Neurorehabilitation

41. Training of Aging Frontal Lobes

42. Physical Activity Effects on brain and Behavior

43. Remediating Frontal Lobe Dysfunction

44. Attention and Arousal in Neurorehabilitation

Section X. Overview

45. Neural Oscillations and Prefrontal Cortex

• • • • • ([收起](#))

[Principles of Frontal Lobe Function_ 下载链接1](#)

标签

认知神经科学

心理学

评论

[Principles of Frontal Lobe Function 下载链接1](#)

书评

[Principles of Frontal Lobe Function 下载链接1](#)