1. Record Nr. UNINA9910465826503321

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| Titolo | Principles of frontal lobe function [[electronic resource] /] / edited by Donald T. Stuss, Robert T. Knight |
| Pubbl/distr/stampa | Oxford ; ; New York, : Oxford University Press, 2002 |
| ISBN | 1-280-83428-5<br>0-19-803083-5<br>9786610834280 |
| Descrizione fisica | 1 online resource (641 p.) |
| Altri autori (Persone) | KnightRobert T<br>StussDonald T |
| Disciplina | 612.8/25 |
| Soggetti | Frontal lobes<br>Cerebral cortex<br>Electronic books. |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Contents; Contributors; 1 Introduction; 2 The Human Frontal Lobes: Transcending the Default Mode through Contingent Encoding; 3 Association Pathways of the Prefrontal Cortex and Functional Observations; 4 Neurochemical Modulation of Prefrontal Cortical Function in Humans and Animals; 5 Functional Architecture of the Dorsolateral Prefrontal Cortex in Monkeys and Humans; 6 Physiology of Executive Functions: The Perception-Action Cycle; 7 The Theatre of the Mind: Physiological Studies of the Human Frontal Lobes; 8 Motor Programming for Hand and Vocalizing Movements<br>9 Cortical Control of Visuomotor Reflexes10 Disorders of Language After Frontal Lobe Injury: Evidence for the Neural Mechanisms of Assembling Language; 11 The Organization of Working Memory Function in Lateral Prefrontal Cortex: Evidence from Event-Related Functional MRI; 12 The Frontal Cortex and Working with Memory; 13 Memory Retrieval and Executive Control Processes; 14 Dorsal Prefrontal Cortex: Maintenance in Memory or Attentional Selection?; 15 Mechanisms of Conflict Resolution in Prefrontal Cortex; 16 Fractionating the Central Executive; 17 Fractionation of the Supervisory |

System

18 Cognitive Focus through Adaptive Neural Coding in the Primate Prefrontal Cortex19 The Structured Event Complex and the Human Prefrontal Cortex; 20 Chronesthesia: Conscious Awareness of Subjective Time; 21 Integration across Multiple Cognitive and Motivational Domains in Monkey Prefrontal Cortex; 22 Emotion, Decision Making, and the Ventromedial Prefrontal Cortex; 23 The Functions of the Orbitofrontal Cortex; 24 Mapping Mood: An Evolving Emphasis on Frontal-Limbic Interactions; 25 Fractionation and Localization of Distinct Frontal Lobe Processes: Evidence from Focal Lesions in Humans

26 Neurobehavioural Consequences of Neurosurgical Treatments and Focal Lesions of Frontal-Subcortical Circuits27 The Role of Prefrontal Cortex in Normal and Disordered Cognitive Control: A Cognitive Neuroscience Perspective; 28 Novel Approaches to the Assessment of Frontal Damage and Executive Deficits in Traumatic Brain Injury; 29 Normal Development of Prefrontal Cortex from Birth to Young Adulthood: Cognitive Functions, Anatomy, and Biochemistry; 30 Executive Functions after Frontal Lobe Injury: A Developmental Perspective; 31 Aging, Memory, and Frontal Lobe Functioning

32 Frontal Lobe Plasticity and Behavior33 Principles of the Rehabilitation of Frontal Lobe Function; 34 Prefrontal Cortex: The Present and the Future; Index; A; B; C; D; E; F; G; H; I; J; K; L; M; N; O; P; R; S; T; U; V; W; Y; Z

Sommario/riassunto

Principles of Frontal Lobe Function provides a comprehensive review of historical and current research on the functions of the frontal lobes and frontal systems of the brain. The content covers frontal lobe functions from birth to old age, from biochemistry and anatomy to rehabilitation, from normal to disrupted function. Two introductory chapters guide, in different ways, reading of subsequent chapters. Following are a number of chapters dealing with basic science - neuroanatomy and neurochemistry. The various theoretical positions proposed reflect the diversity of approaches to the same fund

2. Record Nr. UNINA9910874675403321

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| Autore | Hazra Bodhisatwa |
| Titolo | Unconventional Hydrocarbon Reservoirs: Coal and Shale / / by Bodhisatwa Hazra, Debanjan Chandra, Vikram Vishal |
| Pubbl/distr/stampa | Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024 |
| ISBN | 9783031534843 |
| Edizione | [1st ed. 2024.] |
| Descrizione fisica | 1 online resource (176 pages) |
| Collana | Petroleum Engineering, Sustainable Geoenergy Engineering and Technology, , 2366-2654 |
| Disciplina | 622.338 |
| Soggetti | Cogeneration of electric power and heat<br>Fossil fuels<br>Petrology<br>Renewable energy sources<br>Geology<br>Chemical engineering<br>Fossil Fuel<br>Renewable Energy<br>Chemical Engineering |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Fundamentals of unconventional hydrocarbon reservoirs -- Recent advances in laboratory studies -- Upscaling for natural gas estimates in coal and shale -- Potential for CO2 sequestration in coal and shale -- Perspectives, Challenges and Opportunities. |
| Sommario/riassunto | This informative book offers a comprehensive exploration of critical reservoir parameters, including quantification techniques and interpretations for evaluating these reservoirs. Readers will also gain insight into the fundamental principles of simulating gas production from coal and shale reservoirs, as well as the key input parameters for building the best-fit reservoir model. Additionally, the book explores various aspects of storing captured CO2 in these reservoirs and their potential role in preventing global temperature increases beyond pre-industrial levels. Energy from conventional petroleum reservoirs and coal has been the backbone of global energy needs for a long time. |

However, depletion of these fossil fuel reserves, as well as their contribution to rising greenhouse emissions, has prompted a shift to renewable energy sources. Natural gas found in unconventional coal and shale reservoirs is increasingly seen as a greener energy option, emitting approximately 45% less $CO_2$ than conventional sources. Furthermore, due to their vast availability and capacity to sequester atmospheric $CO_2$, unconventional coal and shale reservoirs can facilitate the transition to renewable energy resources. With a focus on achieving temperature stabilization at 1.5°C, this book offers a valuable resource for those interested in renewable energy and mitigating climate change. .