

SPELLBOUND

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INTRODUCTION

SPELLBOUND is an eBook trilogy for Microsoft Windows®. The work is written in English and is only available in the USA. The work has about 271,750 words, 78 figures, 19 tables, and 2,000 references. Author: Martin Dak.

Book 1, Spellbound: A longitudinal study of an incest victim and a dramatic account of first love affected by incest. Behaviors, memories, thought patterns, and life experiences of incest victims; manifestations of MPD; transference and countertransference, and the limits of psychotherapy.

Book 2, Child Sexual Abuse: Symptoms, personal sequelae, and social consequences of child sexual abuse. Easily identifiable symptoms reveal sexual abuse even in infants, long before children are able to form consciously recoverable memories.

Book 3, The Human Mind: Comprehensive explanation of the function and cognitive architecture of the human brain. A shortened version of this book can be obtained as a stand-alone eBook. It does not include the chapter "Traumas." Visit the home page of Lucid Pages to learn more.

HARDWARE AND SOFTWARE

The eBook SPELLBOUND is available on compact disc (CD) delivered by mail. The CD is of standard size and is compatible with virtually all CD readers running on Microsoft Windows®. THE CD DOES NOT WORK ON NON-WINDOWS SYSTEMS.

The eBook SPELLBOUND is a portable document file (SB6v3.pdf). Bookmarks and Search allow easy navigation. The eBook is protected by a permanent password. The size of the pdf file is about 4.2 MB. PRINTING, EDITING, AND ANNOTATIONS ARE NOT SUPPORTED. Acrobat® Reader 9 or 10, or Nitro PDF Reader is needed to read the eBook. All three readers are free and downloadable over the internet.

TABLE OF CONTENTS

Some terminology in the TOC has been altered to protect proprietary information. The word count is approximate.

BOOK 1: SPELLBOUND **76,540 WORDS**

SPELLBOUND LOVE **12,270 words**

I saw the Light
Second Love
Agnes, ah, Agnes
Air Crash
Heart Ablaze
Midnight Cruise

THE SPELL **19,250 words**

My Spell
Writing a Love Story
Agnes's Spell
The Missing Pieces

BECAUSE OF HER BLUE EYES	26,980 words
The Home Front	
Total Strangers	
The Confused Heart	
Isabel	
Horror Time	
WITCHCRAFT	17,850 words
Nothing Is True	
Overwhelmed	
Trying Times	
Waging War	
Resolution	
<i>BOOK 2: CHILD SEXUAL ABUSE</i>	<i>47,360 WORDS, 9 FIGURES, 18 TABLES</i>
FOREWORD	440 words
THE ACT OF INCEST	1,190 words
Human Sexuality	
Sexual Abuse	
SYMPTOMS OF INCEST	18,350 words, 8 figures
Classification of Symptoms	
Physical Symptoms	
Hormonal Symptoms	
Neurological Symptoms	
Somatic Symptoms	
Dissociative Symptoms	
Behavioral Symptoms	
Special Symptoms	
PREVALENCE OF INCEST	5,390 words, 1 figure, 17 tables
Psychological Profiling	
Primary Symptoms Evaluation	
Secondary Symptoms Evaluation	
Combined Statistics	
REALITY CHECK	4,930 words, 1 table
THE CONSEQUENCES	17,050 words
The Nature of Incest	
The Traumatic Bond	
Dealing with Incest	
The Supernatural	
Morality	
Reactions to Incest	
Lifestyle and Career	
Social Structure	
The Rapist Society	
The Legal System	
The Acting Out	
The War on Incest	
Origin of Mankind	
Doom of Humanity	

BOOK 3: THE HUMAN MIND

147,850 WORDS, 69 FIGURES, 1 TABLE

INTRODUCTION

10,660 words, 11 figures

Central Nervous System
Brain Organization
Brain Operation
Memory Classes

NEURAL CONCEPTS

15,120 words, 27 figures

Brain Stem
Basal Forebrain
Limbic System
Cortex

GLOBAL CONCEPTS

5,450 words, 11 figures

Motor System
Visual System
Auditory System
Memory System
Hierarchical Control
Functional Interactions
Connectivity and Lateralization

NEURAL INTERACTIONS

26,160 words, 10 figures

Cerebellum
Vision
Thalamic Nuclei
Eye Saccades
Motor Functions
Priming
Event-Related Potentials
Special Aspects of Control

MENTAL STATES

31,040 words, 3 figures

Birth of Cognition
Cognitive Drives
Dreams
Consciousness
Constructs of Reality
Hypnosis
Hallucination
The Split Brain
Confabulation
Anosognosia

MEMORY

18,800 words, 6 figures

Episodic Memory
Semantic Memory
Memory Interactions
Personalities
Memory Consolidation
EMDR

MIND AT WORK

11,080 words

Intelligence and Stupidity
Psychopathology
Crime and Punishment
Beauty

Wit and Laughter
Stress and Depression

BRAIN DAMAGE

14,420 words

Cerebellar Damage
Complex Dissociation
Alien Hand Syndrome
Parkinson's Disease
Huntington's Disease
Autism
Alzheimer's Disease
Schizophrenia
Brain Death

TRAUMAS

15,130 words, 1 figure, 1 table

Dissociation
Reactions to Abuse
Remembering Abuse
Dominance and Sex Drive
The Abuser-Victim Bond
Issues in Therapy

Book 3: DETAILED TABLE OF CONTENTS

INTRODUCTION

Central Nervous System: Introduction to the cognitive core of the human brain.
Brain Organization: Introduction to the overall cognitive architecture of the human brain.
Brain Operation: Purpose and functions of the hemispheres and major cognitive systems.
Memory Classes: Classification and functions of memory

NEURAL CONCEPTS

Brain Stem: Major nuclei, structures, and functions of the medulla, pons, and midbrain
Limbic System: Anatomy and function of the thalamus, amygdala, striatum, and basal forebrain
Cortex: Connectivity and function of major Broadman's areas

GLOBAL CONCEPTS

Motor System: Key components of the motor system
Visual System Key components of the visual system
Auditory System Key components of the auditory system
Memory System Key components of the memory system
Hierarchical Control Mechanisms supporting hierarchical control in the human brain
Functional Interactions Arousal, awareness, and consciousness; dorsal & ventral streams

Connectivity and Lateralization Major trends in neural connectivity; bilateral, ipsilateral, and contralateral activations; differential responses to mild and painful stimuli; functional relationships between the dominant and nondominant hemispheres; masked and consciously experienced stimuli; hemispheric specialization in language, emotion, attention, and cognition.

NEURAL INTERACTIONS

Cerebellum

Cerebellar anatomy, zones, connections, and involvement in cognitive and executive functions. Microanatomy, Purkinje and granule cells, mossy and climbing fibers, microzones, and function and purpose of the deep cerebellar nuclei. Physiology of the cerebellum in sensory, motor, memory, and cognitive functions. Physiology of the vestibular system, effects of vestibular caloric irrigation, relationships between the cerebellum and the vestibular system.

Vision

Organization, functions, and abilities of vision; visual centers; striate and extrastriate cortices, and superior colliculus. Retinal structure, projections, and functions of rods and cones. Color, night, peripheral, and foveal vision. Involvement of the pulvinar and lateral geniculate nuclei in higher visual functions. Function of area MT, magnocellular and parvocellular division, and functional specialization. Physiology of fast foveal and slow peripheral reading.

Thalamic Nuclei

Connectivity and division of brain functions; purpose and physiology of the anterior, ventral anterior, mediodorsal, centromedial, intralaminar, pulvinar, and lateral geniculate nuclei.

Eye Saccades

Eye control during smooth pursuit and saccades (express, slow, very slow, reflexive, conditioned, spontaneously triggered, visually guided, memory guided, antisaccades, and microsaccades). Function of major saccadic structures, physiology of one-way peeks and gaze return, cognitive control of eye saccades, physiology of saccade latency (reaction time), curving and guiding of saccades, time gap effects, fixation point, influence of attention, variable timing of popping up targets, influence of flicker lights, interactions between targets and distractors, target shifts after saccade onset, modulation of saccades by internal and external factors, contribution of the supplementary frontal eye fields to demanding saccades, contribution of the superior parietal lobule to vision and physiology of the visual startle response.

Motor Functions

Anatomy of the pyramidal and extrapyramidal motor systems; explanation of grasping, mirror movements, unimanual performance, and bimanual coordination. Physiology of fast and slow manual responses, ipsilateral and contralateral limb control, age-related manual performance, pre-movement potentials, and precision grip versus power grip. Section explains the contributions of the supplementary motor area (SMA) and pre-SMA to movement, effects of muscimol on manual performance, movement deficits after brain injury, involuntary muscle control, and body language. Physiology of phantom limbs, presence of supernumerary limbs, phantom pain, interactions of phantoms with conscious perception, unconsciously experienced pain, reactivation of old dormant phantoms, deafferentation in amputees, and remapping of somatosensory pathways in the brain and in the stub of the telescoping amputated limb.

Priming

Characteristics, timing, and mechanisms of behavioral priming (initiation of action) and repetitive priming (reactions to known stimuli). Physiology of attended and unattended stimuli, unilateral and bilateral priming, effects of visual hemineglect on cognition, priming of familiar and unfamiliar stimuli, negative priming, and second language priming.

Event Related Potentials

Physiology of ERP's; influence of anticipation; prolonged duration of potentials; ERP's of unilateral and bilateral pain; and ERP's of innocuous and painful stimuli. ERP's of language: high probability words, incongruous endings, expectation, oddball tasks, novel and familiar stimuli, and relationship between ERP's and conscious awareness. Analysis of P50, P100, N100, N170, N200, N300, N400, and their association with the function of the brain in pre-pulse inhibition, eye saccades, pain, fear, or language.

Special Aspects of Control

Interactions between neural structures in special sensory and executive functions, physiology of transitive inference problems, impact of ventromedial PFC and dorsolateral PFC damage on classical Pavlovian conditioning, pre-conscious decision making and responses, executive sequences, sequential processing of information, frontal lobe syndrome, perseveration, attentional blink, and loss of skills after brain lesions.

MENTAL STATES

The Birth of Cognition

Origins of cognitive processes and contributions of the ANS and the brain stem to volition and conscious experience.

Cognitive Drives

Emotion: Physiology, interface to somatic and cognitive aspects of awareness, coding of pain, inherited and acquired emotional responses, gender differences in perception and processing of emotional stimuli.

Attention

Types and physiology of attention, reflexive orienting attention, processing of masked stimuli, engagement of the cognitive mind and the conscious Self, physiology of sustained attention, and deficits caused by lapses of attention.

Curiosity

Explanation of curiosity, the participating neural structures, and their roles in creation and modulation of curiosity.

Motivation

Explanation of the forces behind motivation, and identification of the related neural circuits.

Dreams

Characteristics of Dreams

Themes, frequency, characteristic attributes, visual aspects, spatial and temporal characteristics, image quality, cognitive effort and clarity, and triggers of dreams.

The Ultimate Dream

The ultimate dream may happen only once in a lifetime, but offers valuable insight into the processes in the mind.

Lucidity

Detailed explanation of lucid dreams as states of altered consciousness. The discussion analyzes the physiology, attributes, levels, participating neural substrates, cognitive abilities, physiological indicators, and subjective perception of transitions between lucid dreams, regular dreams, and consciousness.

Dreams and Well-being

Influence of dreams on mental health, and effective ways of dealing with nightmares.

Physiology of Dreams

Neural activations in dreams, REM and NREM sleep, forces behind the production of dreams, dream control, ANS dysregulation, physiology of the H-reflex in lucid dreams, pontine activations, involvement of neurotransmitters in dreams, and perception of dreams by the Self. Dream recall after awakening, importance of short-term memory, meaning of dream imagery, mentation during dreams, emotional experience in dreams, cognitive reactivity, pathways of dreams, lesion studies, and cessation of dreams.

Special Dream Phenomena

Physiology of backward and hypnagogic dreams, parasomnias, night terrors, sleepwalking, REM sleep behavior disorder (RBD), out of body experience (OOBE), UFO themes, sleep paralysis, lucid nightmares, daydreaming, and other related phenomena.

Consciousness

Physiology, characteristics, levels, and subjective experiences of consciousness. Gradual loss of consciousness and loss of skills and will.

Constructs of Reality

Explanation of mental and sensory aspects of the Self; visual, somatic, and egocentric perception of space; interactions between personal, peripersonal, and extrapersonal space; effects of spatial neglect on brain functioning; disorientation and orientation bias; spacing out; diagonal neglect; contribution of retinal quadrants to perception of space; neglect in blindsight, and types of neglect after cerebral lesions. Allocentric and egocentric perception of space in dreams and wakefulness, optic ataxia, and neglect in perception of subjective spatial boundaries. Physiology, cognitive distortions, and reduced ability to check reality in the out-of-body experience, Frégoli syndrome, Capgras delusion, and related phenomena.

Hypnosis

Phenomenology and physiology of hypnosis, neural correlates, puzzling occurrences, interactions with the hypnotized Self, and relationship between hypnosis and full consciousness. Explanation of neuropsychological aspects of memory processing under hypnosis, the nature of passive self-awareness, cognitive abilities and volition under hypnosis, neuropsychological differences between light and deep hypnosis, hemispheric effects, interactions with the hidden observer, and neuropsychological differences between lucid dreams and hypnosis.

Hallucination

Global view of the physiology, causes, manifestations, neural and logical correlates, and suggestions for treatment.

The Split Brain

Correct explanation of the split-brain physiology, effects of dissociation and preexisting neural damage on split-brain functions; perseveration phenomenon; disruptive, confrontational, and hostile interhemispheric acts; physiology of the left hand apraxia, and overall biological, neural, and psychological impact of callosotomy.

Confabulation

Spontaneous confabulation, its origin, physiology, and the neural substrates involved.

Anosognosia

Phenomenology and physiology of anosognosia, effects of vestibular caloric stimulation on cognition, and the related neural interactions. Conditions causing anosognosia, denial of illness in real time, disregard of sensory reality, and different verbal responses of patients before, during, and after vestibular irrigation. Physiology of spontaneous and evoked confabulation.

MEMORY

Episodic Memory

Clinical examples of episodic memory impairment in anterograde and retrograde amnesia, and the functional differences between memory storage and recall.

Semantic Memory

Functional organization of the semantic memory. Comprehensive explanation of the physiology of semantic dementia, causes of mild impairment of episodic recall, the 1-2 years temporal gradient in memory recall, poor grammar and verb regularization, advantage for irregular verbs and pseudowords, language acquisition milestones, and physiology of surface dyslexia.

Memory Interactions

Interactions between various episodic and semantic memory functions during acquisition and recall of new, recent, and remote memories. Analysis of interhemispheric interactions, contribution of the basal forebrain to episodic memory, specific deficits after hippocampal lesions, purpose and function of the hippocampus, and involvement of the hippocampus in contextual associations, comparison, and recognition.

Personalities

Makeup of Personalities: Neural and psychological components of multiple personalities

Characteristics of Personalities: Aging, information sensitivity, skill transfer, personality disintegration, differences between personalities, confabulation in multiples, personality switching, physiology of the ISH.

Memory Consolidation

Physiology of memory acquisition, formation, aging, targeted retrieval, spontaneous recall, and consolidation mechanisms of long-term memory that depends on the hippocampus. Purpose and goals of memory consolidation; stages of memory consolidation; mechanisms of memory storage and retrieval; organization, location, and structure of episodic memory; synaptic plasticity and interactions of memory structures; manifestation of unconsolidated memories after TBI; effects of memory consolidation on cognitive performance; variable time of consolidation of different skills; consolidation of memories of multiple personalities; role of REM and NREM sleep in memory consolidation; consequences of failed consolidation; shrinkage of amnesia; amnesia in anosognosia; hemispheric attributes of memory consolidation; memory consolidation in a split brain, and the Wada test physiology.

Eye Movement Desensitization and Reprocessing

Physiology of EMDR, additional ways of achieving the same effect, suggestions for enhancement of the therapeutic results, and application of EMDR in other fields of clinical psychology.

MIND AT WORK

Intelligence and Stupidity
Psychopathology
Crime and Punishment
Beauty
Fun
Wit and Laughter
Stress and Depression

Physiology, IQ, EQ, stupidity, and artificial intelligence
Neural correlates, prevalence, and social impact of psychopathology.
Issues of mental illness, brain function, proof, and punishment
Physiology and clinical manifestations
Physiology and clinical manifestations
Physiology and clinical manifestations
Physiology and clinical manifestations

BRAIN DAMAGE

Cerebellar Damage
Complex Dissociation
Alien Hand Syndrome
Parkinson's Disease
Huntington's Disease
Autism
Alzheimer's disease
Schizophrenia
Brain Death

Physiology of cognitive disorders caused by cerebellar malfunction
Symptoms and physiology of complex dissociative disorders
Physiology and clinical manifestations
Physiology and clinical manifestations
Physiology and clinical manifestations
Physiology and clinical manifestations
Physiology and clinical manifestations
Physiology and clinical manifestations
Clinical examples of neurodegenerative illnesses (FTD, CBD, PSP)

TRAUMAS

Dissociation
Reactions to Abuse
Remembering Abuse
Dominance and Sex Drive
The Abuser-Victim Bond
Issues in Therapy

Common and traumatic dissociative phenomena.
Long-term effects of CSA on neuropsychology, behavior, and treatment
Neuropsychology of traumas, physiology of true, false, and repressed memories
Life, its origin, and the primal forces that control behaviors of living things.
Physiology of psychological bonding during extreme abuse
Issues in therapy with difficult patients, neuropsychology of treatment

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