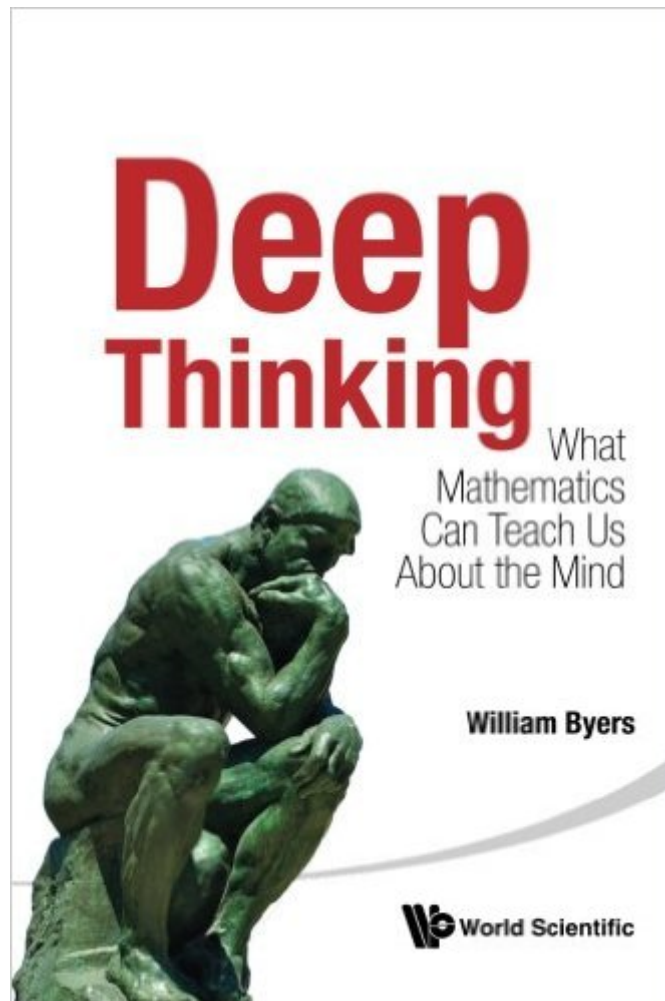


The book was found

Deep Thinking: What Mathematics Can Teach Us About The Mind



Synopsis

There is more than one way to think. Most people are familiar with the systematic, rule-based thinking that one finds in a mathematical proof or a computer program. But such thinking does not produce breakthroughs in mathematics and science nor is it the kind of thinking that results in significant learning. Deep thinking is a different and more basic way of using the mind. It results in the discontinuous "aha!" experience, which is the essence of creativity. It is at the heart of every paradigm shift or reframing of a problematic situation. The identification of deep thinking as the default state of the mind has the potential to reframe our current approach to technological change, education, and the nature of mathematics and science. For example, there is an unbridgeable gap between deep thinking and computer simulations of thinking. Many people suspect that such a gap exists, but find it difficult to make this intuition precise. This book identifies the way in which the authentic intelligence of deep thinking differs from the artificial intelligence of "big data" and "analytics". Deep thinking is the essential ingredient in every significant learning experience, which leads to a new way to think about education. It is also essential to the construction of conceptual systems that are at the heart of mathematics and science, and of the technologies that shape the modern world. Deep thinking can be found whenever one conceptual system morphs into another. The sources of this study include the cognitive development of numbers in children, neuropsychology, the study of creativity, and the historical development of mathematics and science. The approach is unusual and original. It comes out of the author's lengthy experience as a mathematician, teacher, and writer of books about mathematics and science, such as *How Mathematicians Think: Using Ambiguity, Contradiction, and Paradox to Create Mathematics* and *The Blind Spot: Science and the Crisis of Uncertainty*.

Book Information

Paperback: 264 pages

Publisher: World Scientific Publishing Co (November 14, 2014)

Language: English

ISBN-10: 9814618039

ISBN-13: 978-9814618038

Product Dimensions: 6 x 0.6 x 9 inches

Shipping Weight: 14.1 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars See all reviews (1 customer review)

Best Sellers Rank: #2,033,366 in Books (See Top 100 in Books) #95 in Books > Science & Math

> Mathematics > Research #1573 inÂ Books > Science & Math > Mathematics > History #3456
inÂ Books > Health, Fitness & Dieting > Mental Health > Emotions

Customer Reviews

This book is required reading for those who wish to move beyond the superficial or inconsequential ideas of our era.

[Download to continue reading...](#)

Deep Thinking: What Mathematics Can Teach Us About the Mind Positive Thinking: How to Eliminate Negative Thinking and Gain Success, Health and Happiness Through Positive Thinking and Self-empowering Affirmations (Positive Thinking Everyday Book 1) Psychology: Hypnosis and Mind Control to Overcome Stress, Anxiety, Depression, & Finally Recover Your Happiness (Positive Thinking, Body Language, NLP, Mind Reading, CBT, Hypnosis Sex, Brainwashing) Deep Thoughts & Vulgar Quotes: The Book for Adults filled with Dirty Quotes, Deep and Vulgar Thoughts, Profane Proverbs! (Shut the F*ck Up and Color 7) Deep Calling Unto Deep: The Dynamics of Prayer in the Perspective of Chassidism (Mystical Dimension) Knowing and Teaching Elementary Mathematics: Teachers' Understanding of Fundamental Mathematics in China and the United States (Studies in Mathematical Thinking and Learning Series) Emotional Intelligence: Master Your Emotions- Raise Your EQ, Critical Thinking and Optimize Your Life (Emotional Intelligence, Critical thinking, EQ) Thinking About You Thinking About Me: Philosophy and strategies to further develop perspective taking and communicative abilities for persons with ... Autism, Hyperlexia, ADHD, PDD-NOS, NVLD Positive Thinking: How to Rewire Your Brain with Positive Thinking and Self-Empowering Affirmations to Finally Achieve Success and Freedom Critical Thinking: Decision Making with Smarter Intuition and Logic! (Critical Thinking, Decision Making, Logic, Intuition) Thinking Through Systems Thinking Thinking German Translation (Thinking Translation) Thinking Spanish Translation: A Course in Translation Method: Spanish to English (Thinking Translation) The Nature of Theoretical Thinking in Nursing: Third Edition (Kim, The Nature of Theoretical Thinking in Nursing) 50 Philosophy Classics: Thinking, Being, Acting, Seeing, Profound Insights and Powerful Thinking from Fifty Key Books (50 Classics) Critical Thinking in Long-Term Care Nursing: Skills to Assess, Analyze and Act (Cohen, Critical Thinking in Long-Term Care Nursing: Skills t) Thinking Critically to Solve Problems: Values and Finite Mathematical Thinking Teach Your Child - 100 Words To Read, Write, Spell and Draw: Dyslexia Games Presents: 100 Words That Every Child Should Master By Age 10 - An Animal ... Books - By The Thinking Tree) (Volume 1) Why Can't My Child Behave?: Why Can't She Cope? Why Can't He Learn? The Feingold Diet updated for today's

busy families Dark Night, Early Dawn: Steps to a Deep Ecology of Mind (Suny Series in
Transpersonal and Humanistic Psychology) (Suny Series, Transpersonal & Humanistic Psychology)

[Dmca](#)