



# The Pathways of Mind: A Neural Theory of Mental Processing Mathematical Principles, Empirical Evidence, and Clinical Applications

By Roland Kalb

Springer. Paperback. Book Condition: New. Paperback. 360 pages. Dimensions: 9.5in. x 6.4in. x 0.6in. The model for this work was the description of the physical world by mathematical laws. It were always the simplest phenomena which were treated by this scientific method. Physicists studied simple motions in order to find the mathematical laws. Astronomists observed the orbits of planets in order to find the laws of gravity. One of the simplest measurable phenomenon in the brain is the stimulus response task. Such tasks have been known since the last century by psychiatrists and psychologists (v. Helmholtz). There exists a vast literature about the measurement and theory of simple reaction tasks and various choice reaction tasks, visual or auditory. They have been measured and have been described mathematically. One of the first models for the reaction times used a logarithmic function. But many intriguing questions remained open about reaction tasks especially the neural explanation of the findings. The new tool to investigate the neural structure of stimulus-response sequences was the computer. Now it was possible to measure the reaction times by using special programs, to compute the elementary times and the pathway structures from these reaction times, to evaluate the results statistically, to simulate the results, and to write this text. It was this...

## Reviews

*This book is very gripping and fascinating. Yes, it is play, nonetheless an interesting and amazing literature. I found out this ebook from my dad and i recommended this pdf to discover.*

-- **Lavada Nikolaus**

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