



Anthropic Awareness: The Human Aspects of Scientific Thinking in NMR Spectroscopy and Mass Spectrometry

By Csaba Szantay Jr.

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Anthropic Awareness: The Human Aspects of Scientific Thinking in NMR Spectroscopy and Mass Spectrometry By Csaba Szantay Jr.

Anthropic Awareness: The Human Aspects of Scientific Thinking in NMR Spectroscopy and Mass Spectrometry blends psychology, philosophy, physics, mathematics, and chemistry, describing a human-centered philosophy of the essence of scientific thinking in the natural sciences and in everyday life.

It addresses the reasons why we are prone to make errors in our conclusions and how to avoid such mistakes, also exploring a number of the "mental traps" that can lead to both individual mistakes and mass misconceptions.

The book advocates that by understanding the nature of these mental traps we can adopt tactics to safely evade them. It includes illustrative examples of common scientific misunderstandings and mental traps in both the theory and real-life application of NMR spectroscopy and mass spectrometry.

- Provides strategies on how to deal with molecular challenges and instrument limitations
- Presents multiple applications of small molecule structure elucidation using NMR, MS, IR, and UV
- Explores critical topics, including anthropic awareness (AA), NMR Spectroscopy, mass spectrometry, scientific thinking, and more
- Includes tactics on how to improve quality control and data interpretation skills while minimizing data analysis time and increasing confidence in results
- Presents coverage on tactics to optimize experimental NMR parameters and enhance NMR vocabulary

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- Sales Rank: #2555080 in Books
- Published on: 2015-07-06
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x 1.00" w x 7.52" l, 2.45 pounds
- Binding: Hardcover
- 464 pages

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Editorial Review

From the Back Cover

In a blend of psychology, philosophy, physics, mathematics, and chemistry, *Anthropic Awareness: The Human Aspects of Scientific Thinking in NMR Spectroscopy and Mass Spectrometry* describes a human-centered view of the essence of scientific thinking in natural sciences (as well as in everyday life), addressing the reasons why we are prone to make errors in our conclusions and how to avoid these mistakes. This book explores a number of such ‘Mental Traps’ that can lead to both individual mistakes and mass misconceptions, advocating that by understanding the nature of these traps we can adopt a faculty of mind that can safely evade them. Illustrative examples of common scientific misunderstandings and Mental Traps are given in both the theory and real-life application of NMR spectroscopy and mass spectrometry.

After reading this book, you will:

- understand in a structured form how and why human nature, our subjective thoughts and emotions, are an inherent part of science and how scientists work
- attain a keen eye for detecting, evading, and correcting errors in your own and others’ thinking after being armed with new insights, terminology, metaphors, and models
- develop an enlightened mentality to view the scientific descriptions of the world in ‘shades of gray’ rather than ‘black or white’ true or false categories
- improve quality control and data interpretation skills while minimizing data analysis time and increasing confidence in results
- build strategies for dealing with structure determination challenges and utilizing instrumental capabilities
- learn the importance of a concerted and holistic application of NMR and MS in small molecule structure elucidation

About the Author

Csaba Szántay, Jr. was born in Budapest, Hungary, but partly attended elementary school in Buffalo, NY, USA. He obtained an MSc degree in organic chemistry from the Budapest University of Technology and Economics in 1982 with his final thesis involving the methodology and use of NMR spectroscopy. Subsequently, he became a PhD research fellow in Prof. Gábor Tóth’s NMR laboratory at the Department of Analytical Chemistry, Budapest University of Technology and Economics, and obtained his PhD in 1986 in NMR. After that, he worked as a postdoctoral fellow in the NMR laboratory of the University of Leeds, UK. Having returned to Hungary in 1989, he became a member of the NMR team of the Spectroscopic Research Division of the Hungarian pharmaceutical company Gedeon Richter Plc. He was promoted as head of the Division in 1994 and has been in this position since then. He has also maintained a teaching position at the Budapest University of Technology and Economics. He received a “Candidatura” degree in 1991 and a “Doctor of Sciences” degree in 2000 from the Hungarian Academy of Sciences for his work in NMR spectroscopy. In 2003, he became a Private Professor at the Budapest University of Technology and Economics. Besides holding several positions in various scientific committees, he is on the Editorial Board of the journal *Concepts in Magnetic Resonance* and is currently the president of the Hungarian NMR Discussion Group of the Hungarian Academy of Sciences. Along with his managerial duties, his main fields of research interests are the structure elucidation of organic molecules and the theoretical aspects of NMR. He is the author/co-author of more than 100 papers published in international scientific journals.

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