

Boolean Valued Analysis and Positivity

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Abstract. This is an overview of the recent results of interaction of Boolean valued analysis and vector lattice theory.

Key words: Boolean valued analysis, vector lattice, positive operator

MSC 2000: 46 A 40

Boolean valued analysis is a general mathematical method that rests on a special model-theoretic technique. This technique consists generally in comparison between the representations of arbitrary mathematical objects and theorems in two different set-theoretic models whose constructions start with principally distinct Boolean algebras. We usually take as these models the cosiest Cantorian paradise, the von Neumann universe of Zermelo–Fraenkel set theory, and a special universe of Boolean valued “variable” sets trimmed and chosen so that the traditional concepts and facts of mathematics acquire completely unexpected and bizarre interpretations. The use of two models, one of which is *formally* nonstandard, is a family feature of *nonstandard analysis*. For this reason, Boolean valued analysis means an instance of nonstandard analysis in common parlance. By the way, the term *Boolean valued analysis* was minted by G. Takeuti.

Proliferation of Boolean valued models is due to P. Cohen’s final breakthrough in Hilbert’s Problem Number One. His method of forcing was rather intricate and the inevitable attempts at simplification gave rise to the Boolean valued models by D. Scott, R. Solovay, and P. Vopěnka.

Professor M. Weber had invited us to the Positivity Conference at the end of 2004 when we were completing our book “Introduction to Boolean Valued Analysis.” The book was recently published in Russian and so this article is a kind of presentation.

Another recent event of relevance to this article is grievous. Saunders Mac Lane, a cofather of category theory, passed away in San Francisco on April 14, 2005. The power of mathematics rests heavily on the trick of socializing the objects and problems under consideration. The understanding of the social medium of set-theoretic models belongs to category theory.

Topos theory provides a profusion of categories of which classical set theory is an ordinary member. Mathematics has thus acquired infinitely many new degrees of freedom. All these achievements rest on category theory.

“*There remains to us, then, the pursuit of truth, by way of proof, the concatenation of those ideas which fit, and the beauty which results when they do fit.*” So wrote Saunders Mac Lane, a great genius, creator, master, and servant of mathematics. We reverently dedicate this article to the memory of this eternal and tragicomical mathematical Knight of the Sorrowful Figure.

Boolean Valued Analysis

R Bogdan



Boolean Valued Analysis:

Decoding **Boolean Valued Analysis**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Boolean Valued Analysis**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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