

The first chapter deals with idempotent analysis per se. To make the presentation self-contained, in the first two sections we define idempotent semirings, give a concise exposition of idempotent linear algebra, and survey some of its applications. Idempotent linear algebra studies the properties of the semimodules A^n , $n \in \mathbb{N}$, over a semiring A with idempotent addition; in other words, it studies systems of equations that are linear in an idempotent semiring. Probably the first interesting and nontrivial idempotent semiring, namely, that of all languages over a finite alphabet, as well as linear equations in this semiring, was examined by S. Kleene [107] in 1956. This noncommutative semiring was used in applications to compiling and parsing (see also [1]). Presently, the literature on idempotent algebra and its applications to theoretical computer science (linguistic problems, finite automata, discrete event systems, and Petri nets), biomathematics, logic, mathematical physics, mathematical economics, and optimization, is immense; e. g., see [9, 10, 11, 12, 13, 15, 16, 17, 22, 31, 32, 35, 36, 37, 38, 39, 40, 41, 52, 53, 54, 55, 61, 62, 63, 64, 68, 71, 72, 73, 74, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 88, 114, 125, 128, 135, 136, 138, 139, 141, 159, 160, 167, 170, 173, 174, 175, 176, 177, 178, 179, 180, 185, 186, 187, 188, 189]. In §1.2 we present the most important facts of the idempotent algebra formalism. The semimodules A^n are idempotent analogs of the finite-dimensional v - n , tor spaces \mathbb{R}^n and hence endomorphisms of these semimodules can naturally be called (idempotent) linear operators on A^n .

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An approximation of Hopf-Lax type formula via idempotent analysis. Antonio Some of the most recent applications of tropical linearity in numerical linear algebra. Ordering on the AMS Bookstore is limited to individuals for personal use only. in tropical and idempotent mathematics and its applications. New York: Kluwer Academic Publishers, Octavo, glossy boards. pp Fine copy, no owner names. In print () at USD Idempotence is the property of certain operations in mathematics and computer science whereby they can be applied multiple times without changing the result beyond the initial application. In computer science, the term idempotence may have a different meaning depending on the context in which it is applied. Some applications are discussed. Many problems in the optimization theory and other fields of mathematics appear to be linear Its applications include. Idempotent Analysis and Its Applications (Paperback) / Editor: Vasily Kolokoltsov / Editor: Victor P. Maslov ; ; Calculus & mathematical analysis. V.N. Kolokoltsov, V.P. Maslov Idempotent Analysis and its Applications G.L. Litvinov, V.P. Maslov (Eds.), Idempotent Mathematics and Mathematical Physics, .

MAIN TOPICS: Tropical Algebra and Mathematical Physics and their Applications ;. Tropical Geometry and its Applications. Including: Idempotent analysis;.

interesting relations and applications to the traditional convex geometry. In the . concepts and results of idempotent analysis at the purely algebraic level; this.

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