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# A Mathematical Theorem Predicts the Future

Everybody knows that all major laws of Nature discovered by humans are formulated in a mathematical form. On the other hand, the mere development of many practical mathematical instruments, such as, for instance, differential and integral equations, has been stimulated by *practical* needs. So, these relationships between seemingly abstract mathematical notions and Nature are numerous; they are fruitful for all scientific disciplines which, in fact, study the same universal phenomenon – Nature.

Among the most intriguing questions humankind has always been curious about is how to predict the future. It turns out that certain mathematical functions which describe the real behavior of a wide variety of natural processes, including social and economic ones, have a unique property directly related to prediction and understanding of these processes' future developments. A recently discovered mathematical Theorem proves that our future is much more deterministic than we used to think. Although it may sound like a counterintuitive statement (how can an abstract mathematical Theorem predict the future?!), this is true. In the same way the mathematical apparatus of classical mechanics predicts the trajectories of launched rockets and the motion of planets.

The book by Yuri K. Shestopaloff, "Sums of Exponential Functions and their New Fundamental Properties with Applications to Natural Phenomena", presents not only mathematical proofs of the Theorem and its numerous, often startling, corollaries directly related to Nature's functioning, but also provides a comprehensive, intriguing introduction to this interesting subject - mathematical modeling of real life phenomena. Familiarity with high school calculus is the only prerequisite required to comprehend the book's content, and the reader will

acquire lots of different and diverse information. The rare quality of this book is its strong focus on the *conceptual* presentation of the subject, which in itself can serve as a generous source of ideas.

In essence, this theorem discovers the natural laws that really present in Nature and actively shape the world and our lives, and it should not be viewed as a purely mathematical abstract. It just so happened that these real laws have been formulated in the form of a mathematical theorem. In the same way, Newton's laws of mechanics are presented as mathematical formulas, or electric current is described by mathematical equations.

The book can be ordered from all major resellers and from AKVY PRESS: 142 Kennard Ave, North York, Ontario, M3H 4M5, Canada, (web site www.akvypress.com).

*About the Author*. Yuri K. Shestopaloff is an expert in the subject. He holds advanced academic degrees, such as the PhD and Doctor of Sciences. He is a Full Professor in the area of developing mathematical methods and algorithms in different areas of science and technology. He is the author of five books, over eighty academic articles, has awards from professional journals.