


# Derivative with a New Parameter: Theory, Methods and Applications

*By Abdon Atangana*

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**Derivative with a New Parameter: Theory, Methods and Applications** By Abdon Atangana

Derivative with a New Parameter: Theory, Methods and Applications discusses the first application of the local derivative that was done by Newton for general physics, and later for other areas of the sciences.

The book starts off by giving a history of derivatives, from Newton to Caputo. It then goes on to introduce the new parameters for the local derivative, including its definition and properties. Additional topics define beta-Laplace transforms, beta-Sumudu transforms, and beta-Fourier transforms, including their properties, and then go on to describe the method for partial differential with the beta derivatives.

Subsequent sections give examples on how local derivatives with a new parameter can be used to model different applications, such as groundwater flow and different diseases. The book gives an introduction to the newly-established local derivative with new parameters, along with their integral transforms and applications, also including great examples on how it can be used in epidemiology and groundwater studies.

- Introduce the new parameters for the local derivative, including its definition and properties
- Provides examples on how local derivatives with a new parameter can be used to model different applications, such as groundwater flow and different diseases
- Includes definitions of beta-Laplace transforms, beta-Sumudu transforms, and beta-Fourier transforms, their properties, and methods for partial differential using beta derivatives
- Explains how the new parameter can be used in multiple methods

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## Editorial Review

Review

"To define a new integral transform, in addition to the definition one must provide an inversion theorem, existence & uniqueness theorems." **--Zentralblatt MATH,** ***Derivative with a New Parameter***

About the Author
Abdon's speciality is Applied Mathematics, Groundwater Modeling, Fractional Calculus and Their Applications, Methods for Partial Differential Equations, Methods for Ordinary Differential Equations, Iterations Methods, Asymptotic Methods, Perturbations Methods, and Numerical Method for Fractional Differential Equations, Uncertainties Analysis. He has organized 4 special sections and symposium in international conference in Europe. He is first author of 79 research papers. His previous book, Derivative with a New Parameter, published with Elsevier Sep-15.

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