A Method for Solve the Nonlinear Fractional Differential Equations

By Constantin Milici, Gheorghe Draganescu

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In this book is presented a new method introduced in order to establish solutions for fractional differential equations. This method is based on a combination of Adomian decomposition method and Laplace transform method. This new method can be applied to linear and nonlinear fractional differential equations. The method is illustrated on a series of examples including ordinary differential equations and systems of differential equations, partial differential equations and systems. The method can be used with the aid of symbolic calculus. For this reason we are suggested some Maple and Mathematica solutions of the examples investigated.

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About the Author
Was researcher at the Mathematics Institute of the Romanian Academy of Sciences of Timisoara and lecturer at the Department of Mathematics, Polytechnical University of Timisoara between 1965 and 2009. Research in the field of number theory, functional equations, and computer assisted mathematics. Monographs in field of calculus, linear algebra.

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