

1. Record Nr.	UNINA9910729895903321
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Titolo	Differential Equations, Mathematical Modeling and Computational Algorithms : DEMMCA 2021, Belgorod, Russia, October 25–29 // edited by Vladimir Vasilyev
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-28505-0
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (294 pages)
Collana	Springer Proceedings in Mathematics & Statistics, , 2194-1017 ; ; 423
Disciplina	515.35
Soggetti	Differential equations Mathematical models Mathematics - Data processing Differential Equations Mathematical Modeling and Industrial Mathematics Computational Science and Engineering Equacions diferencials Models matemàtics Algorismes computacionals Congressos Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	V. E. Fedorov and K. V. Boyko, Some Classes of Quasilinear Equations with Gerasimov - Caputo Derivatives -- A. Glushak, On the Solvability of Initial Problems for Abstract Singular Equations Containing Fractional Derivatives -- A. Kulikov and D. Kulikov, Local Bifurcations of Periodic Traveling Waves in the Generalized Weakly Dissipative Ginzburg-Landau Equation -- R. Soren Kraußhar, A. Legatiuk, and D. Legatiuk, Towards discrete octonionic analysis -- Igor S. Lomov, Axiomatic method for constructing a generalized solution of a mixed problem for a telegraph equation -- A. Mironov and L. Mironova, "Non-local Substitutions for Liouville Equations with Three and Four Independent Variables -- Li Liu, Zhenbin Fan, Gang Li, and Sergey Piskarev,

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Sommario/riassunto

This book contains reports made at the International Conference on Differential Equations, Mathematical Modeling and Computational Algorithms, held in Belgorod, Russia, in October 2021 and is devoted to various aspects of the theory of differential equations and their applications in various branches of science. Theoretical papers devoted to the qualitative analysis of emerging mathematical objects, theorems of the existence and uniqueness of solutions to the boundary value problems under study are presented, and numerical algorithms for their solution are described. Some issues of mathematical modeling are also covered; in particular, in problems of economics, computational aspects of the theory of differential equations and boundary value problems are studied. The articles are written by well-known experts and are interesting and useful to a wide audience: mathematicians, representatives of applied sciences and students and postgraduates of universities engaged in applied mathematics.
