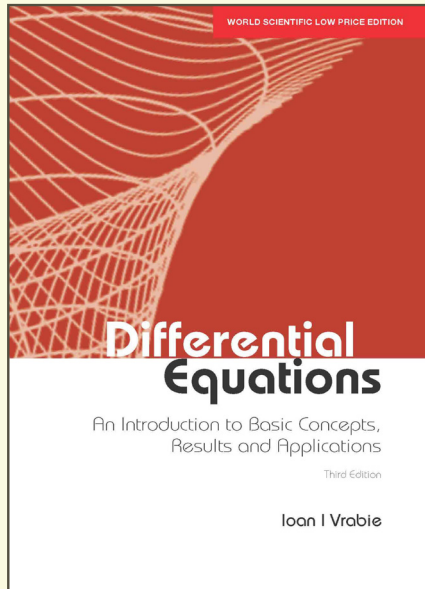


Differential Equations, 3rd Edition

An Introduction to Basic Concepts, Results and Applications



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ISBN	9798886130126
Extent	528pp
Binding	Paperback
Year	2024
Price	Rs. 1595

ABOUT THE BOOK

This book presents, in a unitary frame and from a new perspective, the main concepts and results of one of the most fascinating branches of modern mathematics, namely differential equations, and offers the reader another point of view concerning a possible way to approach the problems of existence, uniqueness, approximation, and continuation of the solutions to a Cauchy problem. In addition, it contains simple introductions to some topics which are not usually included in classical textbooks: the exponential formula, conservation laws, generalized solutions, Caratheodory solutions, differential inclusions, variational inequalities, viability, invariance, and gradient systems.

In this new edition, some typos have been corrected and two new topics have been added: Delay differential equations and differential equations subjected to nonlocal initial conditions. The bibliography has also been updated and expanded.

READERSHIP

Graduate or undergraduate students dealing with analysis and differential equations, Volterra equations, calculus of variations and mathematical modeling.

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