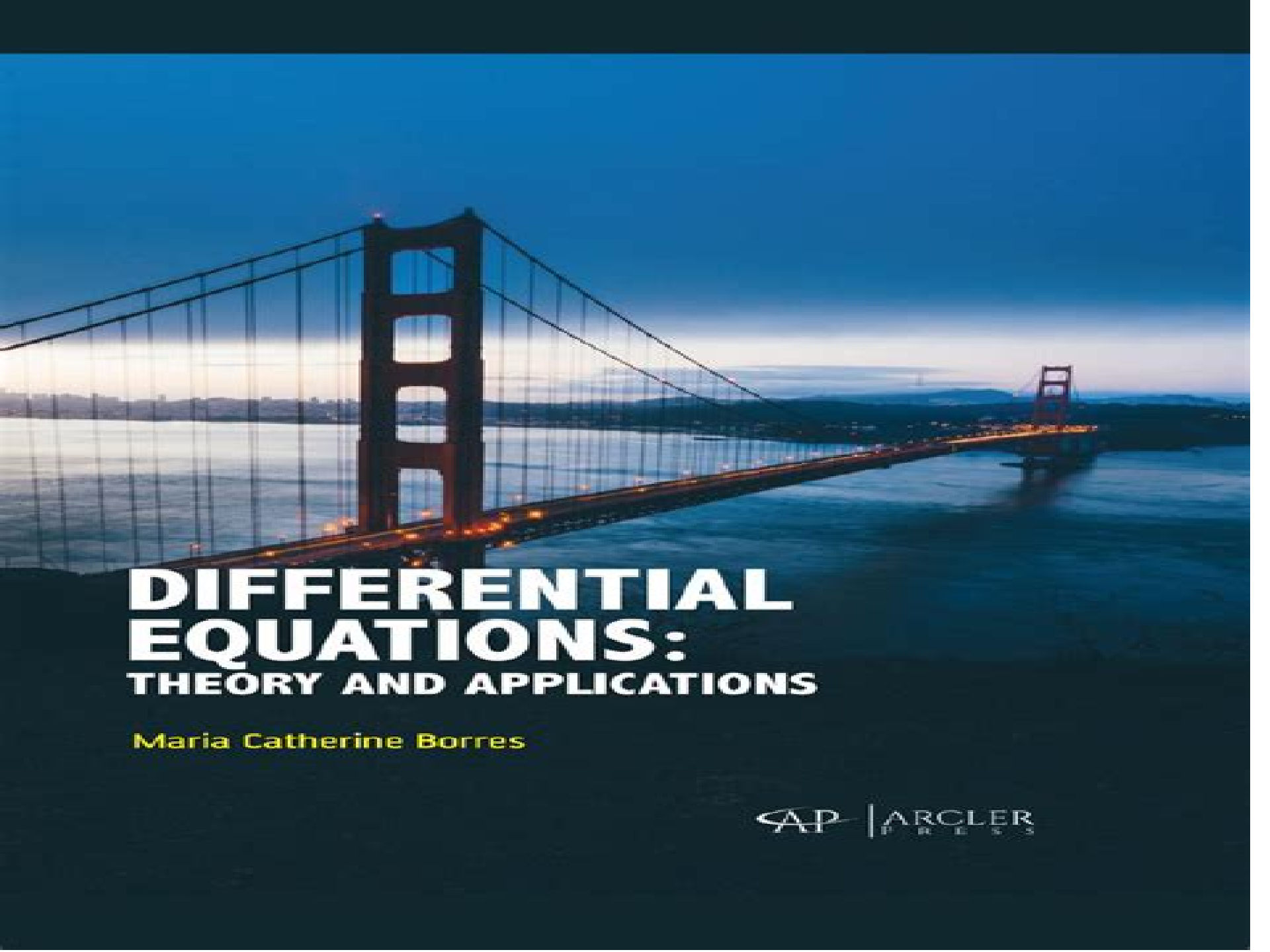


A photograph of the Golden Gate Bridge in San Francisco at dusk. The bridge's iconic orange-red towers and suspension cables are silhouetted against a deep blue sky. The bridge deck is illuminated with warm lights, and the water below reflects the ambient light. The city skyline is visible in the distance across the water.

DIFFERENTIAL EQUATIONS: THEORY AND APPLICATIONS

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Differential Equations Theory And Applications

Differential Equations Theory And Applications

Michael Shearer, Rachel Levy



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Trujillo, 2006 This monograph provides the most recent and up to date developments on fractional differential and fractional integro differential equations involving many different potentially useful operators of fractional calculus The subject of fractional calculus and its applications that is calculus of integrals and derivatives of any arbitrary real or complex order has gained considerable popularity and importance during the past three decades or so due mainly to its demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering Some of the areas of present

day applications of fractional models include Fluid Flow Solute Transport or Dynamical Processes in Self Similar and Porous Structures Diffusive Transport akin to Diffusion Material Viscoelastic Theory Electromagnetic Theory Dynamics of Earthquakes Control Theory of Dynamical Systems Optics and Signal Processing Bio Sciences Economics Geology Astrophysics Probability and Statistics Chemical Physics and so on In the above mentioned areas there are phenomena with strange kinetics which have a microscopic complex behaviour and their macroscopic dynamics can not be characterized by classical derivative models The fractional modelling is an emergent tool which use fractional differential equations including derivatives of fractional order that is we can speak about a derivative of order $1/3$ or square root of 2 and so on Some of such fractional models can have solutions which are non differentiable but continuous functions such as Weierstrass type functions Such kinds of properties are obviously impossible for the ordinary models What are the useful properties of these fractional operators which help in the modelling of so many anomalous processes From the point of view of the authors and from known experimental results most of the processes associated with complex systems have non local dynamics involving long memory in time and the fractional integral and fractional derivative operators do have some of those characteristics This book is written primarily for the graduate students and researchers in many different disciplines in the mathematical physical engineering and so many others sciences who are interested not only in learning about the various mathematical tools and techniques used in the theory and widespread applications of fractional differential equations but also in further investigations which emerge naturally from or which are motivated substantially by the physical situations modelled mathematically in the book This monograph consists of a total of eight chapters and a very extensive bibliography The main objective of it is to complement the contents of the other books dedicated to the study and the applications of fractional differential equations The aim of the book is to present in a systematic manner results including the existence and uniqueness of solutions for the Cauchy type problems involving nonlinear ordinary fractional differential equations explicit solutions of linear differential equations and of the corresponding initial value problems through different methods closed form solutions of ordinary and partial differential equations and a theory of the so called sequential linear fractional differential equations including a generalization of the classical Frobenius method and also to include an interesting set of applications of the developed theory Key features It is mainly application oriented It contains a complete theory of Fractional Differential Equations It can be used as a postgraduate level textbook in many different disciplines within science and engineering It contains an up to date bibliography It provides problems and directions for further investigations Fractional Modelling is an emergent tool with demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering It contains many examples and so on

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