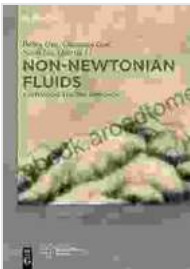


Non-Newtonian Fluids: A Dynamical Systems Approach

Non-Newtonian fluids are a class of fluids that exhibit complex behaviors that deviate from the simple linear relationship between shear stress and shear rate that is characteristic of Newtonian fluids. These fluids are ubiquitous in nature and industry, from the flow of blood in our veins to the processing of food and pharmaceuticals. Understanding the behavior of non-Newtonian fluids is crucial for a wide range of applications, from the design of new materials to the optimization of industrial processes.



Non-Newtonian Fluids: A Dynamical Systems Approach

★★★★★ 5 out of 5
Language : English
File size : 24749 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Print length : 648 pages



Dynamical Systems Approach

This book takes a dynamical systems approach to understanding non-Newtonian fluids. Dynamical systems theory is a powerful mathematical framework that provides a unified way to analyze the behavior of complex systems. By applying dynamical systems theory to non-Newtonian fluids, we can gain a deeper insight into their behavior and identify key parameters that govern their flow properties.

Key Concepts

The book covers a wide range of topics related to non-Newtonian fluids, including:

- The basic concepts of rheology, the study of the flow of fluids
- The different types of non-Newtonian fluids, such as shear thinning, shear thickening, and yield stress fluids
- The use of dynamical systems theory to analyze the behavior of non-Newtonian fluids
- The applications of non-Newtonian fluids in various industries, such as the food, pharmaceutical, and oil and gas industries

Benefits of Reading This Book

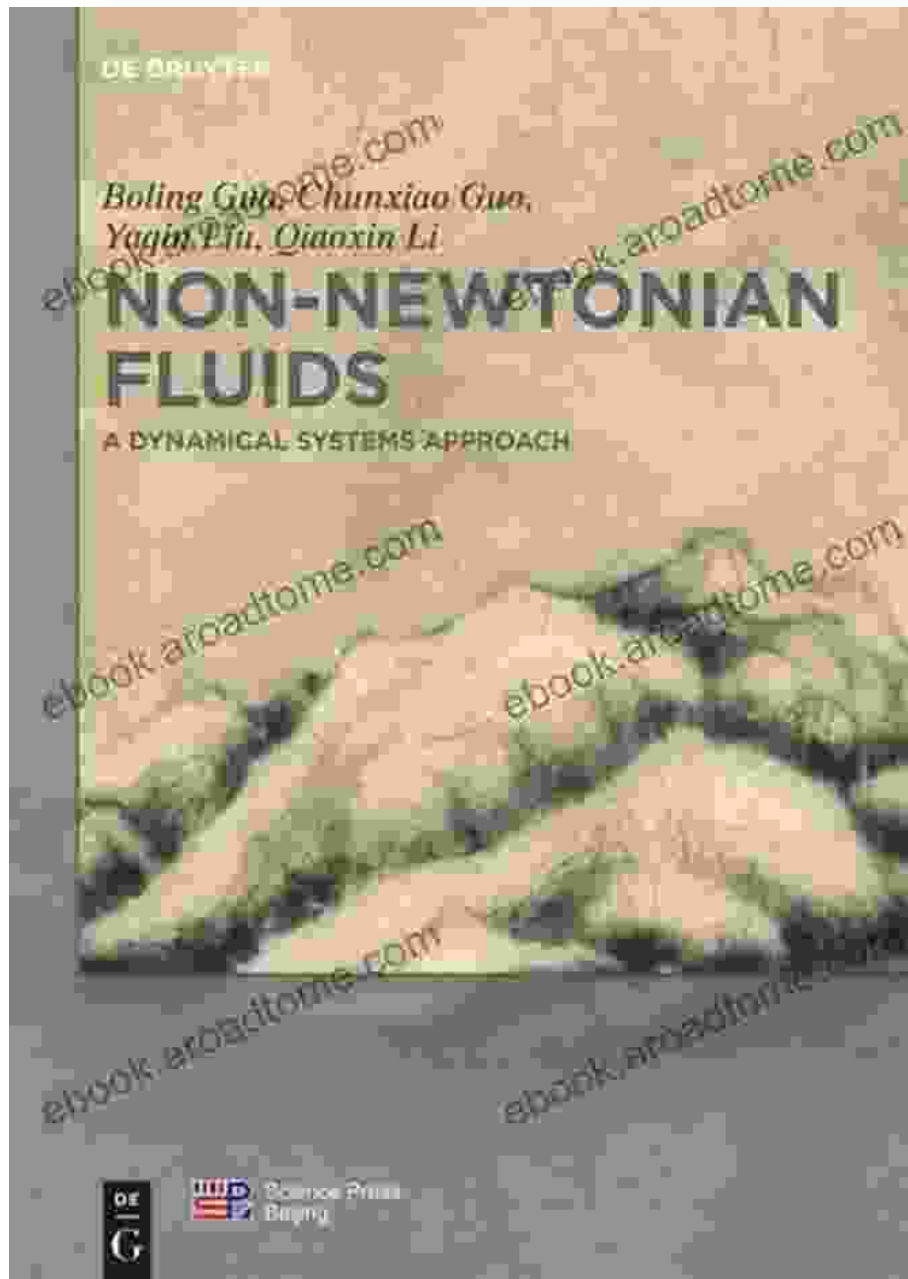
Reading this book will provide you with a comprehensive understanding of non-Newtonian fluids and their behavior. You will learn how to use dynamical systems theory to analyze the flow of non-Newtonian fluids and how to apply this knowledge to solve real-world problems. The book is written in a clear and concise style, making it accessible to readers with a variety of backgrounds.

Who Should Read This Book?

This book is ideal for researchers, engineers, and scientists who are interested in learning more about non-Newtonian fluids. It is also a valuable resource for students studying fluid mechanics, rheology, or dynamical systems theory.

Free Download Your Copy Today!

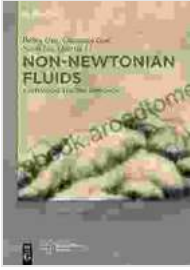
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