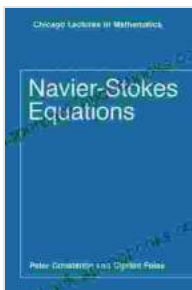


# Navier-Stokes Equations: Chicago Lectures in Mathematics: Your Gateway to Fluid Dynamics Mastery

## Unravel the Secrets of Fluid Motion: A Detailed Exploration of Navier-Stokes Equations

The Navier-Stokes equations, a cornerstone of fluid dynamics, are a set of partial differential equations that describe the motion of viscous fluids. They govern a wide range of fluid phenomena, from the flow of blood in our veins to the dynamics of hurricanes.

In this comprehensive volume, Roger Temam, a renowned expert in fluid dynamics, presents a rigorous and accessible to the Navier-Stokes equations. With meticulous detail and clarity, he guides readers through the derivation, properties, and applications of these fundamental equations.



### Navier-Stokes Equations (Chicago Lectures in Mathematics) by Jo Hamya

★★★★★ 5 out of 5

Language : English

File size : 5102 KB

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- A thorough foundation in the mathematical principles underlying fluid dynamics
- In-depth analysis of the existence, uniqueness, and regularity of solutions to the Navier-Stokes equations
- Exploration of the global behavior of solutions, including stability, bifurcation, and chaos
- Practical applications in diverse fields, such as engineering, meteorology, and astrophysics
- Rigorous treatment with a wealth of exercises and open problems for further exploration

### **Target Audience:**

This book is written for graduate students and researchers in mathematics and applied sciences, particularly those interested in fluid dynamics, mathematical physics, and partial differential equations. It is also an invaluable resource for practicing engineers and scientists seeking a deeper understanding of fluid flow phenomena.

### **About the Author:**

Roger Temam, a professor emeritus at the University of Paris-Sud, is a renowned mathematician with over 40 years of experience in fluid dynamics and partial differential equations. His seminal contributions have shaped the field, and he continues to inspire generations of researchers.

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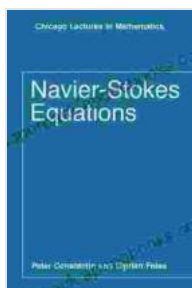
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"Temam has written a remarkable book that provides a deep and rigorous to the Navier-Stokes equations. It is a testament to his expertise and dedication to the field." - **C. Foias, Indiana University**

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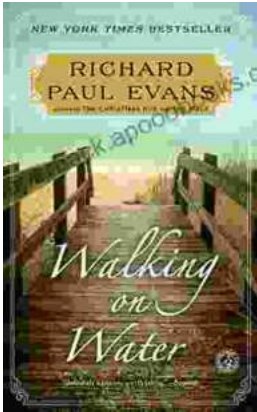
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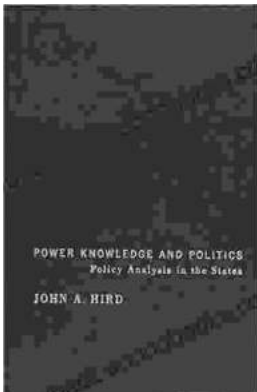
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