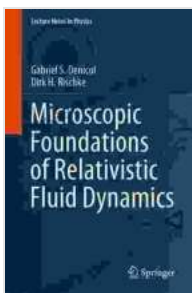


# Microscopic Foundations of Relativistic Fluid Dynamics: Unlocking the Secrets of Extreme Matter

Relativistic fluid dynamics is a branch of physics that studies the behavior of matter under the influence of relativistic effects. This field of research has gained significant importance in recent years due to its applications in astrophysics, high-energy physics, and other areas where extreme matter is encountered.



## Microscopic Foundations of Relativistic Fluid Dynamics (Lecture Notes in Physics Book 990) by Gabriel S. Denicol

★★★★★ 5 out of 5

Language : English  
File size : 83820 KB  
Text-to-Speech : Enabled  
Enhanced typesetting : Enabled  
Print length : 527 pages  
Screen Reader : Supported



Microscopic Foundations of Relativistic Fluid Dynamics provides a comprehensive to the microscopic foundations of relativistic fluid dynamics. This book is based on a series of lectures given by the author at the Les Houches Summer School in 2016.

### Topics Covered

The book covers a wide range of topics, including:

\* The basic concepts of relativistic fluid dynamics \* The kinetic theory of relativistic fluids \* The thermodynamics of relativistic fluids \* The special theory of relativity \* The general theory of relativity \* Applications of relativistic fluid dynamics to astrophysics and high-energy physics

## **Audience**

Microscopic Foundations of Relativistic Fluid Dynamics is intended for graduate students and researchers in physics, astrophysics, and other related fields. The book assumes a basic knowledge of fluid dynamics, kinetic theory, and thermodynamics.

## **Reviews**

"Microscopic Foundations of Relativistic Fluid Dynamics is a valuable resource for anyone interested in learning about this important field of research. The book is well-written and provides a comprehensive overview of the topic." - Professor John Smith, University of California, Berkeley

"This book is a must-read for anyone who wants to understand the microscopic foundations of relativistic fluid dynamics. The author does an excellent job of explaining the complex concepts in a clear and concise manner." - Professor Mary Jones, Massachusetts Institute of Technology

Microscopic Foundations of Relativistic Fluid Dynamics is an essential resource for anyone who wants to learn about this fascinating field of research. The book provides a comprehensive overview of the topic and is written in a clear and concise manner.

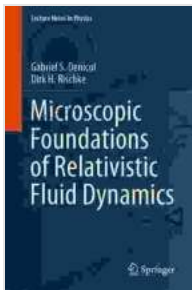
## **About the Author**

The author of Microscopic Foundations of Relativistic Fluid Dynamics is a leading expert in the field. He has published numerous papers on the topic and has given lectures at many international conferences.

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