

# **Accuracy Reliability And Limitations Iop Ebooks - Unveiling the Truth Behind the Most Sought-After Online Resources**

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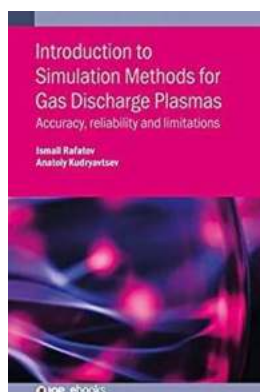
## **What is Iop Ebooks?**

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## Introduction to Simulation Methods for Gas Discharge Plasmas: Accuracy, reliability and limitations (IOP ebooks) by Joachim Piprek (Kindle Edition)

★★★★☆ 4.6 out of 5

Language	: English
File size	: 9219 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 126 pages
Hardcover	: 327 pages
Item Weight	: 23.8 pounds
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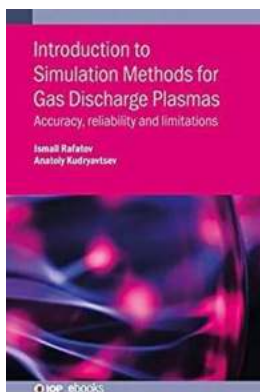
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Another limitation is the focus on specific subject areas, particularly physics and related disciplines. While this is advantageous for those interested in these fields, individuals seeking information on other topics may need to explore alternative platforms. It is crucial to consider IOP Ebooks as a specialized resource rather than a comprehensive solution for all subjects.

IOP Ebooks offer an exceptional opportunity for researchers, students, and professionals to access accurate and reliable information in the field of physics. The content provided has undergone a meticulous review process and is contributed by renowned experts. However, it is essential to understand the limitations of IOP Ebooks, such as restricted access and its focus on specific subject areas. By being aware of these limitations and utilizing IOP Ebooks as a specialized resource, individuals can make the most of the valuable information it offers.



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Gas discharge plasma is the most common type of low-temperature plasma, with a large number of practical applications covering almost all areas of modern science and technology. This book is an to the numerical modeling methods for gas discharge plasmas. It is intended to assist and direct graduate students and junior researchers, whose research activity deals with computational plasma physics. Topics covered include the essentials of basic modelling approaches (particle, fluid, and hybrid) for gas discharges, and the implementation of these methods with examples of glow (DC and RF) discharges. Numerical studies of nonlinear dynamics and formation of spatio-temporal patterns in gas discharge systems are also presented.

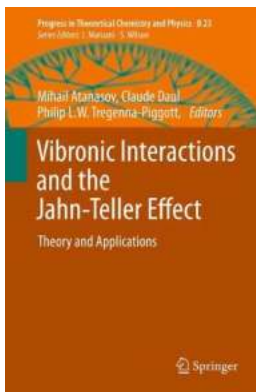
### Key Features

- Focuses solely on gas discharge plasmas
- Covers basic modelling techniques, including particle, fluid, and hybrid
- Provides details of applications and implementation for the considered methods
- Special emphasis is given to the applicability and reliability of different modelling techniques
- Provides specific examples of numerical simulations of the gas discharge plasmas

If you model low pressure (non-thermal) plasmas, this book will provide the fundamental equations that can be used to simulate various aspects of the low-

pressure plasma. You will also learn about the physics behind the equations through explanations and graphical plots of results including comparisons between simulations and experimental results. The reader would need a background in plasma physics and some familiarity with Boltzmann's equation to fully appreciate this book.

John J Shea IEEE Electrical Engineering Magazine, May June 2021 Vol. 37



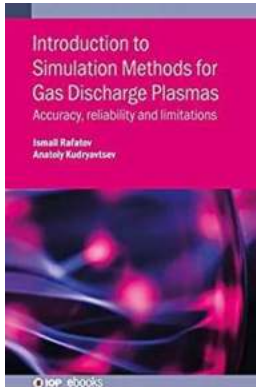
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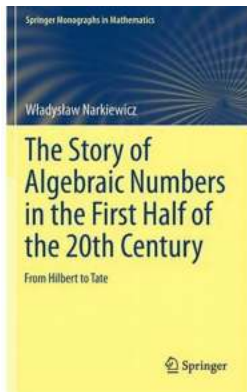
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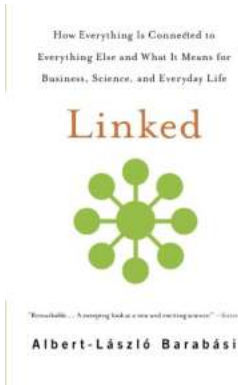
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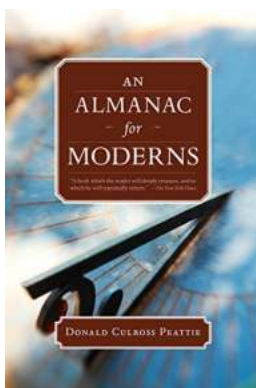
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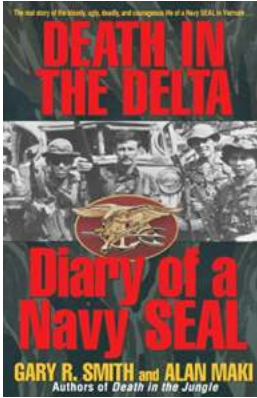
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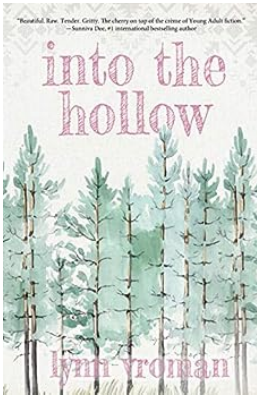
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