Logic of Computation: A Journey into the Foundations of Computer Science

In the rapidly evolving landscape of technology, computer science has emerged as an indispensable discipline, driving innovation and shaping our daily lives. At the heart of computer science lies the intricate logic of computation, a fascinating field that explores the theoretical foundations of computation and its applications.

The groundbreaking book, 'Logic of Computation: NATO ASI Subseries 157', offers an unparalleled guide to this captivating subject. Authored by renowned experts in the field, this comprehensive textbook provides a rigorous and accessible exploration of the underlying principles that govern computation.



Logic of Computation (NATO ASI Subseries F: Book

157) by Helmut Schwichtenberg

★★★★ 5 out of 5

Language : English

File size : 5584 KB

Text-to-Speech : Enabled

Screen Reader : Supported

Print length : 394 pages



Exploring the Theoretical Underpinnings of Computer Science

The book meticulously unravels the theoretical foundations of computer science, introducing readers to the fundamental concepts of logic,

computability, complexity, and algorithms. Through a series of insightful chapters, it delves into the intricacies of:

- Propositional and first-Free Download logic, providing a solid grounding in the formal representation of knowledge and reasoning.
- Turing machines and lambda calculus, introducing the fundamental models of computation and their expressive power.
- Computability and complexity theory, delving into the limits of computation and the inherent challenges of solving certain problems.
- Formal semantics of programming languages, exploring the theoretical underpinnings of code and its execution.

A Valuable Resource for Students and Researchers

Whether you're a student embarking on a journey in computer science or a seasoned researcher seeking to deepen your understanding of the field, 'Logic of Computation: NATO ASI Subseries 157' is an invaluable resource. Its comprehensive coverage, clear explanations, and abundance of examples make it an essential addition to any bookshelf.

Key Features:

- A systematic and rigorous approach to the foundations of computer science.
- In-depth coverage of logic, computability, complexity, and algorithms.
- Contributions from leading experts in the field.
- Numerous solved examples and exercises to reinforce understanding.

 Suitable for advanced undergraduate and graduate students, as well as researchers in computer science.

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Embark on a mind-expanding journey into the logic of computation with 'Logic of Computation: NATO ASI Subseries 157'. Free Download your copy today and unlock a deeper understanding of the theoretical foundations that underpin the digital world we live in.

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About the Authors

The book is authored by a distinguished team of computer scientists, including:

- H. A. Maurer, University of Dortmund, Germany
- Rolf Stadler, University of Bern, Switzerland
- Peter G. Clote, University of Auckland, New Zealand

Praise for 'Logic of Computation'

"This book provides a comprehensive and rigorous treatment of the foundations of computer science. It is an excellent resource for both students and researchers in the field." - **Michael Sipser**, Massachusetts Institute of Technology

"A valuable contribution to the literature on the foundations of computer science. It offers a clear and concise to the subject, covering a wide range of topics." - J. F. Traub, University of Texas at Austin

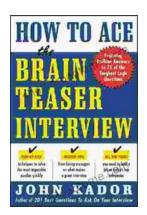


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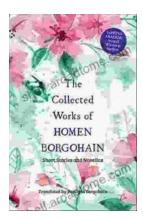
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