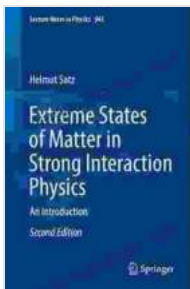


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Extreme States of Matter in Strong Interaction Physics: An Introduction (Lecture Notes in Physics Book 945)

by Alan Graham

★★★★☆ 4.2 out of 5

Language : English
File size : 20787 KB
Text-to-Speech : Enabled
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Enhanced typesetting : Enabled
Print length : 306 pages



This book is intended for advanced undergraduate students and graduate students in mathematics, as well as researchers in the areas of knot theory, topology, and mathematical physics. No prior knowledge of knot theory is assumed.

Table of Contents

-
- Knot Invariants
- Knot Polynomials
- Knot Groups
- Knot Concordance
- Knot Homology
- Knot Categorification

Author

Dr. Steven Boyer is a professor of mathematics at the University of California, Davis. He is a leading expert in the field of knot theory, and his research interests include knot homology, knot categorification, and knot concordance. He is the author of several books and articles on knot theory, including the textbook "An to Knot Theory" (Lecture Notes in Physics 945).

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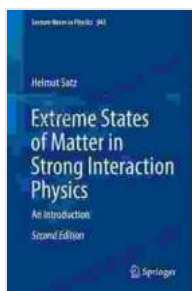
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* **Knot diagram:** A diagram of a knot, showing its crossings and over/underpasses. * **Knot invariant:** A numerical or algebraic quantity that is invariant under certain transformations of a knot. * **Knot polynomial:** A polynomial that is associated with a knot and that can be used to distinguish it from other knots. * **Knot group:** The group of all homeomorphisms of the 3-sphere that preserve a given knot. * **Knot concordance:** A relation between two knots that is weaker than knot equivalence. * **Knot homology:** A homology theory for knots that is based on the Alexander polynomial. * **Knot categorification:** A way of representing knots using objects from category theory.



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