

The book was found

Knot Theory And Its Applications



Synopsis

This book introduces the study of knots, providing insights into recent applications in DNA research and graph theory. It sets forth fundamental facts such as knot diagrams, braid representations, Seifert surfaces, tangles, and Alexander polynomials. It also covers more recent developments and special topics, such as chord diagrams and covering spaces. The author avoids advanced mathematical terminology and intricate techniques in algebraic topology and group theory. Numerous diagrams and exercises help readers understand and apply the theory. Each chapter includes a supplement with interesting historical and mathematical comments.

Book Information

Hardcover: 341 pages

Publisher: Birkhäuser; 1 edition (June 27, 1996)

Language: English

ISBN-10: 0817638172

ISBN-13: 978-0817638177

Product Dimensions: 6.1 x 0.8 x 9.2 inches

Shipping Weight: 1.4 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #641,662 in Books (See Top 100 in Books) #107 in Books > Science & Math > Mathematics > Geometry & Topology > Algebraic Geometry #132 in Books > Science & Math > Mathematics > Geometry & Topology > Topology #382 in Books > Textbooks > Science & Mathematics > Mathematics > Geometry

Customer Reviews

From the reviews: "The book ...develops knot theory from an intuitive geometric-combinatorial point of view, avoiding completely more advanced concepts and techniques from algebraic topology.... intended for readers without a considerable background in mathematics...particular attention is given to connections and applications to other natural sciences. Thus the emphasis is on a lucid and intuitive exposition accessible to a broader audience... The book, written in a stimulating and original style, will serve as a first approach to this interesting field for readers with various backgrounds in mathematics, physics, etc. It is the first text developing recent topics as the Jones polynomial and Vassiliev invariants on a level accessible also for non-specialists in the field." Zentralblatt Math "Noteworthy features here include applications to chemistry and biology and a final chapter on the very important Vassiliev invariants, a fairly

late-breaking development. Murasugi, an expert of stature on knots, begins absolutely from first principles and avoids sophisticated terminology, but he writes in a careful and rigorous style." "I grabbed the opportunity to review this book, and I'm still enthusiastic. I enjoyed it immensely. In general, the author strives for clarity, and that was appreciated by this reviewer and will be appreciated by students. I also enjoyed how he always keeps us abreast of the general picture, in particular keeping us up to date with respect to the various new results and successes." (Marion Cohen, MathDL, June, 2008)

Text: English (translation) Original Language: Japanese

[Download to continue reading...](#)

The Wonders of the Colorado Desert (Southern California), Vol. 1 of 2: Its Rivers and Its Mountains, Its Canyons and Its Springs, Its Life and Its ... Journey Made Down the Overflow of the Colo Knot Theory and Its Applications Solomon's Knot Techniques and Projects: Learn How to Crochet the Solomon's or Lover's Knot Symbolism, Its Origins and Its Consequences (Art, Literature and Music in Symbolism, Its Origins and Its) Introduction to Non-Abelian Class Field Theory, An: Automorphic Forms of Weight 1 and 2-Dimensional Galois Representations (Series on Number Theory and Its Applications) Knot Theory (Mathematical Association of America Textbooks) An Interactive Introduction to Knot Theory (Aurora: Dover Modern Math Originals) Rediscovering Northwest Denver: Its History, Its People, Its Landmarks Hood's Texas Brigade, Its Marches, Its Battles, Its Achievements America's Great Circus Parade: Its Roots, Its Revival, Its Revelry Transportation Systems Analysis: Models and Applications (Springer Optimization and Its Applications) Structural Analysis: With Applications to Aerospace Structures (Solid Mechanics and Its Applications) Melt Rheology and Its Role in Plastics Processing: Theory and Applications The theory of electrons and its applications to the phenomena of light and radiant heat (TOC) The Theory of Electrons, and Its Applications to the Phenomena of Light and Radiant Heat Graph Theory and Sparse Matrix Computation (The IMA Volumes in Mathematics and its Applications) Cryptography: Theory and Practice, Third Edition (Discrete Mathematics and Its Applications) Peridynamic Theory and Its Applications Boundary Integral Equations in Elasticity Theory (Solid Mechanics and Its Applications) Graph Theory and Its Applications, Second Edition (Textbooks in Mathematics)

Contact Us

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)