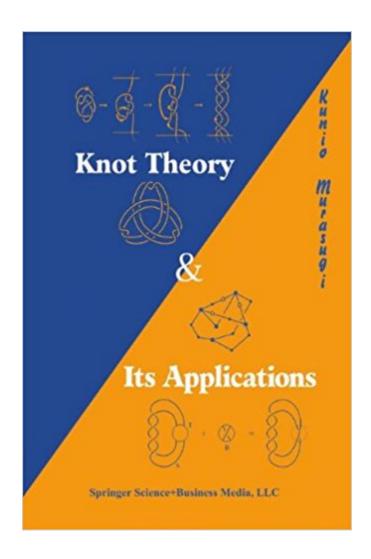


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# **Knot Theory And Its Applications**





### **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**

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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."Â Â â "Choice "I grabbed the opportunity to review this book, and lâ ™m still enthusiastic. â | I enjoyed it immensely. â | In general, the author strives for clarity, and that was appreciated by this reviewer and will be appreciated by students. â | 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 â | ." (Marion Cohen, MathDL, June, 2008)

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