Kassel / Turaev

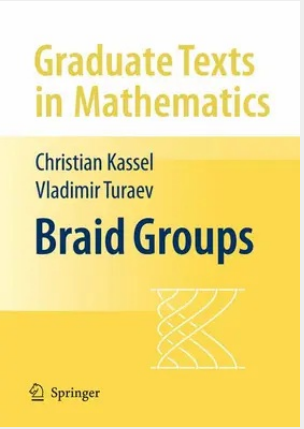
Braid Groups

Braids and braid groups, the focus of this text, have been at the heart of important mathematical developments over the last two decades. Their association with permutations has led to their presence in a number of mathematical fields and physics. As central objects in knot theory and 3-dimensional topology, braid groups has led to the creation of a new field called quantum topology.

In this well-written presentation, motivated by numerous examples and problems, the authors introduce the basic theory of braid groups, highlighting several definitions that show their equivalence; this is followed by a treatment of the relationship between braids, knots and links. Important results then treat the linearity and orderability of the subject. Relevant additional material is included in five large appendices.

will serve graduate students and a number of mathematicians coming from diverse disciplines.

Braids and braid groups form central objects in knot theory and three-dimensional topology. They have also been at the heart of important mathematical developments over the last two decades. This introductory text presents the theory of braids and braid groups to the reader along with the recent developments in this field. Developments related to the linearity and orderability of braid groups are carefully presented. This well-written text is ideal for graduate students and all mathematicians with an interest in braids and braid groups.



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