

Braid Group, Knot Theory, and Statistical Mechanics II #467 pages #Chen Ning Yang, Mo-Lin Ge #1994 #World Scientific, 1994 #9789810215248

Knot invariants and statistical mechanics: a physicist's perspective / F.Y. Wu. Edition Notes. Includes bibliographical references. Series. Advanced series in mathematical physics ;, v. 17. Classifications. Dewey Decimal Class. This book is a collection of articles discussing the Jones work and other approaches that relate knot theory and statistical mechanics, written a few years after his discovery. My review will be confined to the articles which I read in detail. An article by Vaughn Jones begins the book and discusses the connection between subfactors of von Neumann algebras and statistical mechanics. The von Neumann algebras related to the transfer matrices are particular types of II(1) and III factors, which the author constructs using Bratteli diagrams and the Gelfand-Naimark-Segal construction. The article by Louis Kauffman discusses polynomial invariants of knots and the Yang-Baxter factorization equation. You can write a book review and share your experiences. Other readers will always be interested in your opinion of the books you've read. Whether you've loved the book or not, if you give your honest and detailed thoughts then people will find new books that are right for them. 1. Brain and Behavior + Brain and Behavior: an Introduction to Behavioral Neuroscience, 5th Ed. Interactive Ebook An Introduction to Behavioral Neuroscience. SAGE Publications, Inc.