Exactly Solved Models in Statistical Mechanics

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Rodney J. Baxter

Exactly Solved Models In Statistical Mechanics:

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symmetry and anomalous dimensions have deeply changed the modern vision of many areas of physics leading to remarkable developments in statistical mechanics elementary particle theory condensed matter physics and string theory This self contained book provides a thorough introduction to the fascinating world of phase transitions and frontier topics of exactly solved models in statistical mechanics and quantum field theory such as renormalization groups conformal models quantum integrable systems duality elastic S matrices thermodynamic Bethe ansatz and form factor theory The clear discussion of physical principles is accompanied by a detailed analysis of several branches of mathematics distinguished for their elegance and beauty including infinite dimensional algebras conformal mappings integral equations and modular functions Besides advanced research themes the book also covers many basic topics in statistical mechanics quantum field theory and theoretical physics Each argument is discussed in great detail while providing overall coherent understanding of physical phenomena Mathematical background is made available in supplements at the end of each chapter when appropriate The chapters include problems of different levels of difficulty Advanced undergraduate and graduate students will find this book a rich and challenging source for improving their skills and for attaining a comprehensive understanding of the many facets of the subject   *Exactly Solved Models in Statistical Mechanics and Their Interplay with Classical Analysis* Peter J. Forrester,1985   Statistical Field Theory ,2016   **The Many-body Problem: an Encyclopedia of Exactly Solved Models in One Dimension** Daniel C. Mattis,1993 Classical statistical mechanics Spectrum of disordered and or anharmonic chains of oscillators   Notices of the American Mathematical Society American Mathematical Society,1991   Mathematical Reviews ,1987   Journal of Physics A ,2002 Focuses on fundamental mathematical and computational methods underpinning physics Relevant to statistical physics chaotic and complex systems classical and quantum mechanics classical and quantum integrable systems and classical and quantum field theory   **Weyl Group Multiple Dirichlet Series** Ben Brubaker,1940   Journal of Physics ,2002   Pacific Journal of Mathematics ,   *Canadian Journal of Physics* ,2009   Acta Physica Polonica ,1998   Encyclopedia of Mathematical Physics Jean-Pierre Françoise,Gregory L. Naber,Sheung Tsun Tsou,2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also

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Table of Contents Exactly Solved Models In Statistical Mechanics

1. Understanding the eBook Exactly Solved Models In Statistical Mechanics
    - The Rise of Digital Reading Exactly Solved Models In Statistical Mechanics
    - Advantages of eBooks Over Traditional Books
2. Identifying Exactly Solved Models In Statistical Mechanics
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Exactly Solved Models In Statistical Mechanics
    - User-Friendly Interface
4. Exploring eBook Recommendations from Exactly Solved Models In Statistical Mechanics
    - Personalized Recommendations
    - Exactly Solved Models In Statistical Mechanics User Reviews and Ratings
    - Exactly Solved Models In Statistical Mechanics and Bestseller Lists

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