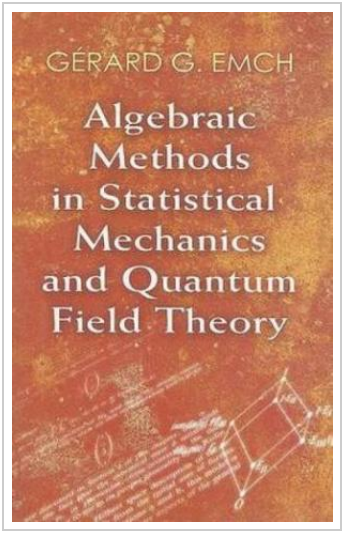

Algebraic Methods in Statistical Mechanics and Quantum Field Theory (Paperback)

By Gerard G. Emch

Dover Publications Inc., United States, 2009. Paperback. Condition: New. Dover. Language: English . Brand New Book. This systematic algebraic approach concerns problems involving a large number of degrees of freedom. It extends the traditional formalism of quantum mechanics, and it eliminates conceptual and mathematical difficulties common to the development of statistical mechanics and quantum field theory. Further, the approach is linked to research in applied and pure mathematics, offering a reflection of the interplay between formulation of physical motivations and self-contained descriptions of the mathematical methods. The four-part treatment begins with a survey of algebraic approaches to certain physical problems and the requisite tools. Succeeding chapters explore applications of the algebraic methods to representations of the CCR/CAR and quasi-local theories. Each chapter features an introduction that briefly describes specific motivations, mathematical methods, and results. Explicit proofs, chosen on the basis of their didactic value and importance in applications, appear throughout the text. An excellent text for advanced undergraduates and graduate students of mathematical physics, applied mathematics, statistical mechanics, and quantum theory of fields, this volume is also a valuable resource for theoretical chemists and biologists.

Reviews

This type of ebook is everything and got me to seeking in advance plus more. it was writtern really completely and helpful. You wont feel monotony at at any moment of your respective time (that's what catalogues are for about should you request me).

-- ***Dr. Santino Cremin***

Completely essential study ebook. This is for all those who statte there was not a well worth reading. I realized this book from my dad and i recommended this publication to find out.

-- ***Jarrell Kovacek***