



Topics in Contemporary Mathematical Physics : 2nd Edition

By Kai S Lam

WSPC Sep 2015, 2015. Taschenbuch. Condition: Neu. Neuware - 'This self-contained work still provides a useful introduction of basic ideas, structures, and results which have made a great impact on the development of mathematical physics.'Zentralblatt MATH This new (second) edition contains a general treatment of quantum field theory (QFT) in a simple scalar field setting in addition to the modern material on the applications of differential geometry and topology, group theory, and the theory of linear operators to physics found in the first edition. All these are introduced without assuming more background on the part of the reader than a good foundation in undergraduate (junior) level mathematical physics. The new material entirely focuses on an introduction to quantum field theory, emphasizing the Feynman path (functional integral) approach to QFT and the renormalization group. With respect to the latter, the focus is on an introduction of its application to critical phenomena in statistical physics, following the outgrowth of the Callan-Symanzik equation originally developed in the context of high energy physics, and the seminal contributions of Kenneth Wilson. One of the overriding aims of the new material is also to draw students' attention to the deep connections between high energy physics and...



Reviews

This type of book is everything and taught me to hunting ahead of time and more. It is actually rally interesting through looking at time period. You can expect to like just how the article writer write this publication.

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