



Towards the Mathematics of Quantum Field Theory (Ergebnisse der Mathematik und ihrer Grenzgebiete. 3. Folge / A Series of Modern Surveys in Mathematics)

Frederic Paugam

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This ambitious and original book sets out to introduce to mathematicians (even including graduate students) the mathematical methods of theoretical and experimental quantum field theory, with an emphasis on coordinate-free presentations of the mathematical objects in use. This in turn promotes the interaction between mathematicians and physicists by supplying a common and flexible language for the good of both communities, though mathematicians are the primary target. This reference work provides a coherent and complete mathematical toolbox for classical and quantum field theory, based on categorical and homotopical methods, representing an original contribution to the literature.

The first part of the book introduces the mathematical methods needed to work with the physicists' spaces of fields, including parameterized and functional differential geometry, functorial analysis, and the homotopical geometric theory of non-linear partial differential equations, with applications to general gauge theories. The second part presents a large family of examples of classical field theories, both from experimental and theoretical physics, while the third part provides an introduction to quantum field theory, presents various renormalization methods, and discusses the quantization of factorization algebras.

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Towards the Mathematics of Quantum Field Theory (Ergebnisse der Mathematik und ihrer Grenzgebiete. 3. Folge / A Series of Modern Surveys in Mathematics) can be one of your beginner books that are good idea. Many of us recommend that straight away because this reserve has good vocabulary which could increase your knowledge in terminology, easy to understand, bit entertaining but nevertheless delivering the information. The writer giving his/her effort that will put every word into joy arrangement in writing Towards the Mathematics of Quantum Field Theory (Ergebnisse der Mathematik und ihrer Grenzgebiete. 3. Folge / A Series of Modern Surveys in Mathematics) nevertheless doesn't forget the main level, giving the reader the hottest as well as based confirm resource information that maybe you can be among it. This great information may draw you into completely new stage of crucial thinking.

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