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General Principles Of Quantum Field

General Principles of Quantum Field Theory (Mathematical Physics and Applied Mathematics) 1990th Edition. by N.N. Bogolubov (Author), Anatoly A. Logunov (Author), A.I. Oksak (Author), I. Todorov (Author) & 1 more. ISBN-13: 978-0792305408.

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The goal of quantum field theory is to describe various quantum mechanical phenomena using a modified concept of fields. Canonical quantisation and path integrals are two common formulations of QFT. To motivate the fundamentals of QFT, an overview of classical field theory is in order.

Quantum field theory - Wikipedia

The explanation of the basic principles of the local theory and its mathematical structure has left its mark on all modern activity in this area. Originally, the axiomatic approach arose from attempts to give a mathematical meaning to the quantum field theory of strong interactions (of Yukawa type).

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A very general consequence of quantum field theory, valid in the presence of arbitrarily complicated interactions, is the CPT theorem. It states that the product of charge conjugation, parity, and time reversal is always

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The wavefunction describing any particle in quantum mechanics is a matter wave, whose form is computed through the use of Schrödinger equation. Ergo, matter waves form the central most important feature of quantum mechanics.

An Easy Explanation of the Basics of Quantum Mechanics for ...

The bedrock principles of physics are still intact: energy is still conserved, entropy still increases, nothing can move faster than the speed of light. You cannot exploit quantum effects to build...

Seven Essential Elements of Quantum Physics | ScienceBlogs

Quantum field theory, body of physical principles combining the elements of quantum mechanics with those of relativity to explain the behaviour of subatomic particles and their interactions via a variety of force fields.

quantum field theory | Definition & Facts | Britannica

The explanation of the basic principles of the local theory and its mathematical structure has left its mark on all modern activity in this area. Originally, the axiomatic approach arose from attempts to give a mathematical meaning to the quantum field theory of strong interactions (of Yukawa type).

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This book starts from a set of common basic principles to establish the formalisms in all areas of fundamental physics, including quantum field theory, quantum mechanics, statistical mechanics, thermodynamics, general relativity, electromagnetic field, and classical mechanics.

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The Schwinger Model.- A. Solution in the Lorentz gauge (474). B. Vacuum functional (480). C. Physical fields; observables (481).- IV Collision Theory. Axiomatic Theory of the S-Matrix.- Synopsis.- 12. Haag-Ruelle Scattering Theory.- 12.1. Scheme of the Quantum Field Theory of Scattering.- A. The one-particle problem in quantum field theory (486 ...

General principles of quantum field theory (Book, 1990 ...

This cohesive book begins with the wavefunction to develop the basic principles of quantum mechanics such as the uncertainty principle and wave-particle duality. Comprehensive coverage of quantum theory is presented, supported by experimental results and explained through applications and examples without the use of abstract and complex mathematical tools or formalisms.

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is called quantum field theory. It is based on three basic principles: two of them, of course, are quantum mechanics and special relativity. The third one, which I wish to emphasize, is the postulate that elementary particles are point-like objects of zero intrinsic size. In practice, they are smeared over a region of space due to quantum

Quantum Field Theory

For example, the uncertainty principle of quantum mechanics means that the more closely one pins down one measurement (such as the position of a particle), the less accurate another complementary measurement pertaining to the same particle (such as its speed) must become.

Introduction to quantum mechanics - Wikipedia

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